

# Varying occupational stress and organisational commitment within the university staff of contrasting economies

(Cross-sectional comparative study of middle range public universities in Pakistan and the UK)

A Doctoral Thesis presented by

### Adnan ul Haque

to

The University of Wales Trinity Saint David (UWTSD)

in Partial fulfilment of the Requirement for the Degree of

Doctor of Business Administration

in the Subject of

Organizational Behaviour

Supervisor: Dr. John Aston

Director of Studies: Professor Dr. Eugene Kozlovski

UWTSD London, United Kingdom May 2018

#### ABSTRACT

This thesis investigates the varying occupational stressors and organisational commitment of the contrasting genders at the teaching and administrative positions in the contrasting economies of the UK and Pakistan. Whilst the existing literature is focused on individual cases of personal strain and resources, occupational therapists' role, social support and organisational commitment of employees, this thesis extends the current knowledge with comparative analysis in the context of gender, faculty and economy. The mixed method used is based on the combination of SEM, Chi-Square and multiple regression informed by the total of 408 survey responses, followed by a qualitative study of 98 interviews.

The results confirmed that overall organisational factors cause higher stress while psychological effects are common in the education sectors of both economies. Overall stress, and organisational commitment, is higher in Pakistan despite higher power distance and collectivism. Overall, personal factors cause more stress to females and non-teaching staff, while organisational factors often make males and teaching staff stressed. Furthermore, the physical and behavioural effects are higher amongst males and non-teaching staff, while females and teaching staff have higher psychological symptoms. Nevertheless, the causes and consequences of stress, and job-related preferences differ for gender, faculty, and economy. The statistical tests confirmed non-significant impact of occupational therapists on the affective commitment (AC), normative commitment (NC), and continuance commitment (CC). All other predictors, to some extent, have a significant effect on OC. Furthermore, males exhibit higher AC, while females often report NC and CC. Social support and stress management programmes are effective in sustaining human capital and reducing strain. The qualitative findings supported the statistical outcomes. Based on above results, practical implications are recommended to public universities for reducing stress and improving organisational commitment to sustain human capital.

**Keywords:** *Causes of Stress; Consequences of Stress; Comparative Analysis; Organisational Commitment; Public Universities in Contrasting Economies* 

## **DECLARATION**

This work has not previously been accepted in substance for any degree and is not being concurrently submitted in candidature for any degree.

#### Adnan ul Haque

| Signed          | (candidate) |
|-----------------|-------------|
| 25 October 2018 |             |
| Date            |             |

#### **STATEMENT 1**

This thesis is the result of my own investigations, except where otherwise stated. Where correction services have been used the extent and nature of the correction is clearly marked in a footnote(s). Other sources are acknowledged by footnotes giving explicit references. A bibliography is appended.

#### **STATEMENT 2**

I hereby give consent for my thesis, if accepted, to be available for photocopying and for inter-library loan, and for the title and summary to be made available to outside organisations.

#### Adnan ul Haque

Signed ...... (candidate) 25 May 2018 Date .....

### STATEMENT 3

I hereby give consent for my thesis, if accepted, to be available for deposit in the University's digital repository.

Adnan ul Haque

### ACKNOWLEDGEMENTS

I would like to express my gratitude to following:

*Dr. John Aston* and *Professor Dr. Eugene Kozlovski* (my supervisory team), for believing in me and guiding me expertly throughout the research journey. There were times where I was feeling low, but their support and encouragement kept me going on. Not only they guided me but ensured I continue publishing papers in reputed journals under their expert supervision. They communicated and critically evaluated my progress continuously while allowing me continuing in my own way, so I can learn and enjoy research process.

*Chaman* and *Faizan ul Haque* (my parents) for believing, supporting, and encouraging me during my stressful days. Talking to them helped me overcoming obstacles. I also thank my brother *Irfan ul Haque* and sister *Riffat Faizan* for ensuring my stay in the UK remains comfortable by sharing family responsibilities. They encouraged me towards this Doctorate. Without their moral and emotional support, I wouldn't have made it so far. My little niece *Zuhal* and *Zaryab* for inspiring joy and life in me.

I would also thank my research colleagues and lecturers, especially *Dr Akhtar Baloch, Dr Vipin Nadda* and *Dr Sebastian Kot* for communicating and sharing ideas, critical discussions, and circulating surveys and arranging interviews in the UK and Pakistan. Additionally, I also thank all my lecturers and professors for educating me, enhancing my knowledge, and providing opportunity to contribute to workshops, especially *Dr Steve Sommerville, Dr Isaiah Oino, Dr Jill Venus* and *Ravshonbek Otojanov*.

All my friends; especially Asphandyar for his IT support from time to time.

I also thank Ms. Marylyn Whaymand for providing professional proof-reading services.

I thank the management of all organisations for giving consent. I also thank respondents for sharing their views, feelings, and experiences. Without their contributions, I wouldn't have been able to complete this research.

Most importantly, *Nasreen Zehra* for continuously supporting me throughout research phase, critically reviewing my strategies and arranging workshops at MNCs for corporate training.

### PUBLICATIONS RESULTING FROM THIS RESEARCH PROJECT

Haque, A. U., Aston, J., and Kozlovski, E. (2018). The impact of stressors on organisational commitment of managerial and non-managerial personnel in contrasting economies: Evidences from Canada and Pakistan. *International Journal of Business*, 23(2), 152-168

Haque, A. U., Aston, J., and Kozlovski, E. (2016). Do causes and consequences of stress affect genders differently at operational level? Comparison of the IT sectors in the UK and Pakistan. *International Journal of Applied Business*, 1(1), 1-7.

Haque, A. U., and Aston, J. (2016). A Relationship between Occupational Stress and Organizational Commitment of I.T Sector's Employees in Contrasting Economies. *Polish Journal of Management Studies*, 14(1), 95-105.

Haque A. U., and Oino, I. (2017) Sustaining Human Capital by Reducing Stress through Social Support Programme in Contrasting economies. Accepted in Conference Proceedings at 4<sup>th</sup> *European Conference of Behavioural Sciences and Psychology*, Brighton, UK.

# **TABLE OF CONTENTS**

| ABSTRACT                                       | ii     |
|--|--------|
| DECLARATION                                    | iii    |
| ACKNOWLEDGEMENTS                               | v      |
| PUBLICATIONS RESULTING FROM THIS RESEARCH PROJ | IECTvi |
| TABLE OF CONTENTS                              | vii    |
| LIST OF ABBREVIATIONS                          | xii    |
| LIST OF FIGURES                                | xiv    |
| LIST OF TABLES                                 | xvi    |
| CHAPTER ONE: INTRODUCTION                      |        |
| 1.1 Introduction                               |        |
| 1.2 Background and Context                     |        |
| 1.3 Research Problem                           |        |
| 1.3.1 The Research Agenda                      |        |
| 1.3.2 Background of research problem           |        |
| 1.3.3 Problem statement                        |        |
| 1.4 Research Questions                         |        |
| 1.5 Aim  |        |
| 1.6 Objectives                                 |        |
| 1.7 Significance of the project                |        |
| 1.8 Overview of undertaken methodology         |        |
| 1.9 Definition of Key terms                    |        |
| 1.9 Overview and Structure of the project      |        |
| CHAPTER TWO: LITERATURE REVIEW                 |        |
| 2.0 Introduction                               |        |
| 2.1 Stress                                     |        |
| 2.2 Types of Stress                            | 41     |
| 2.2.1 Eustress                                 |        |
| 2.2.2 Distress                                 |        |

| 2.2.3 Hyper-Stress   | 42  |
|--|-----|
| 2.2.4 Hypo-Stress  | 42  |
| 2.3 Level of Stress  | 42  |
| 2.4 Causes and Effects of Occupational Stress at the Workplace         | 44  |
| 2.5 "General Adaption Syndrome" - the GAS Model of Stress              | 47  |
| 2.6 Interactional and Transactional Theories of Stress                 | 48  |
| 2.6.1 Interactional theories   | 48  |
| 2.6.2 Transactional Theories   | 56  |
| 2.7 Perceived Organisational Support                                   | 71  |
| 2.8 Social support   | 72  |
| 2.9 Job Satisfaction   | 74  |
| 2.10 Organisational Commitment (OC)                                    | 75  |
| 2.10.1 Dimensions of Organisational Commitment                         | 76  |
| 2.11 Role of the occupational therapist in dealing with stress at work | 81  |
| 2.12 Hofstede Cultural Dimensions                                      | 81  |
| 2.13 Gaps in Literature  | 85  |
| 2.14 Hypotheses  | 86  |
| 2.15 Summary   | 86  |
| CHAPTER THREE: CONCEPTUAL FRAMEWORK                                    | 88  |
| 3.1 Introduction   | 88  |
| 3.2 Variables of interest  | 88  |
| 3.3 Grid-Group Cultural (GGC) theory and comparative approach          | 90  |
| 3.4 Stressors in an organisational setting                             | 103 |
| 3.5 Approaches to investigating occupational stress                    | 106 |
| 3.6 Summary  | 109 |
| CHAPTER FOUR: RESEARCH METHODOLOGY                                     | 110 |
| 4.1 Introduction   | 110 |

|   | 4.2 Research paradigm  | 110 |
|---|--|-----|
|   | 4. 3 Research Philosophy   |     |
|   | 4.3.1 The Distinction between Factual and Useful Truths:               |     |
|   | 4.3.3 Axiology   | 114 |
|   | 4.4 Research Type  |     |
|   | 4.5 Research Approach  | 115 |
|   | 4.6 Research Design  | 115 |
|   | 4.7 Research Methods for Data Collection                               | 116 |
|   | 4.8 Sampling Techniques  |     |
|   | 4.9 Population and sample size   |     |
|   | 4.9.1 Determining Sample Size for Interviews:                          |     |
|   | 4.9.1 Determining Sample Size for Questionnaire:                       |     |
|   | 4.9.2 Determining Sample Size for Interviews:                          |     |
|   | 4.10 Research Instrument   |     |
|   | 4.10.1 Self-constructed and Online Survey                              |     |
|   | 4.10.2 In-depth face-to-face and SKYPE Interviews                      |     |
|   | 4.10.3 Formulating questions to answer research questions              | 124 |
|   | 4.11 Pilot Testing   |     |
|   | 4.12 Data Collection Procedure   | 127 |
|   | 4.13 Data Analysis and Tools   |     |
|   | 4.14 Methodological, Thematic and Comparison of two-perspective review | 129 |
|   | 4.15 Methodological Difficulties                                       | 129 |
|   | 4.16 Ethics  |     |
|   | 4.17 Reliability   |     |
|   | 4.18 Validity  | 132 |
|   | 4.19 Summary:  | 133 |
| С | HAPTER FIVE: RESEARCH FINDINGS AND DISCUSSION                          |     |

| 5.1 Introduction   |     |
|--|-----|
| 5.2 Questionnaire - Results, Findings and Discussion                                     |     |
| 5.2.1 Reliability  |     |
| 5.2.2 Equal and Normal Distribution  |     |
| 5.2.3 Fitness of the model   |     |
| 5.2.4 Chi-Square Tests   |     |
| 5.2.5 Exploratory Factor Analysis  |     |
| 5.2.6 Partially Recursive Model  |     |
| 5.2.7 Proportional Analysis  |     |
| 5.2.8 Multiple Regression  |     |
| 5.2.8.1 Predictors and organisational commitment's antecedents - Contrasting economies   |     |
| 5.2.8.2 Predictors and Organisational commitments' antecedents - Contrasting Genders     |     |
| 5.2.8.3 Predictors and Organisational commitments' antecedents - Contrasting Faculties . |     |
| 5.3 Interview Findings and Discussion  |     |
| 5.3.1 Most likely job feature  |     |
| 5.3.2 Most disliked job attribute  |     |
| 5.3.3 Dislike feature affecting university staff   |     |
| 5.3.4 Ways to overcome negative impact   |     |
| 5.3.5 Rate and effectiveness of the Occupational Therapist                               | 211 |
| 5.3.4 Awareness and effectiveness of Social Support at workplace                         | 213 |
| 5.3.5 Type of Support attained from social support at workplace                          | 216 |
| 5.3.6 Stress Management Programme effectiveness at workplace                             |     |
| 5.3.7 Affective Commitment at the Universities   |     |
| 5.3.8 Visibility of Normative Commitment among others at the Universities                |     |
| 5.3.9 Continuance Commitment of employees at the Universities                            |     |
| 5.3.10 Causes of stress at the Universities  |     |
| 5.3.11 Consequences of stress at the Universities  |     |
| 5.4 Overall findings in the light of Grid-Group Cultural theory                          |     |
| 5.5 Summary  |     |
| CHAPTER 6: OVERALL CONCLUSION, CONTRIBUTION AND IMPLICATIONS                             |     |

| 6.1 Introduction           | 259 |
|----------------------------|-----|
| 6.2 Overall Conclusion     | 260 |
| 6.3 Research Contributions | 270 |
| 6.4 Research Implications  | 275 |
| 6.5 Research Limitations   | 278 |
| 6.6 Concluding Remarks     | 279 |
| BIBLIOGRAPHY               | 281 |
| APPENDIX A                 | 335 |
| APPENDIX B                 | 352 |
| APPENDIX C                 | 357 |
| APPENDIX D                 | 360 |
| APPENDIX E                 | 370 |
| APPENDIX F                 | 371 |

## LIST OF ABBREVIATIONS

| Abbreviation | Meaning   |
|--------------|---|
| AC           | Affective commitment                            |
| AFGI         | Adjusted Goodness-of-Fit Index                  |
| AMOS         | Analysis of a moment structures                 |
| ANOVA        | Analysis of Variance                            |
| BREXIT       | British exit                                    |
| CAOT         | Canadian Association of Occupational Therapists |
| CC           | Continuance Commitment                          |
| CFA          | Confirmatory Factor Analysis                    |
| CFI          | Comparative Fit Index                           |
| CIPD         | Chartered Institute of Personnel Development    |
| C.R          | Critical Ratio                                  |
| CSHS         | Centre for Studies on Human Stress              |
| DAB          | Demographic, Attitudinal, and Behavioural       |
| DCS          | Demand Control Support                          |
| DRIVE        | Demand Resources and Individual Effect          |
| DSS          | Demand-Skill-Support                            |
| EFA          | Exploratory Factor Analysis                     |
| EOP          | Effectiveness of Occupational Therapist         |
| ERI          | Effort-Reward Imbalance                         |
| GAS          | General Adaption Syndrome                       |
| GDP          | Gross Domestic Product                          |
| GFI          | Goodness-of-Fit Index                           |
| GWI          | Global Wellness Institute                       |
| КМО          | Kaiser-Meyer-Olkin                              |
| HCEC         | Housing Consumer Education Centers              |
| HEFCE        | Higher Education Funding Council for England    |
| HEWS         | Higher Education Workforce Survey               |
| HDI          | Human Development Index                         |
|              |   |

| HR      | Human Resource                              |
|---------|---|
| ID      | Identity Document                           |
| IT      | Information Technology                      |
| JD-R    | Job-Demand Resource                         |
| JS      | Job Satisfaction                            |
| M.E     | Margin of Error                             |
| MS      | Microsoft                                   |
| NC      | Normative Commitment                        |
| OC      | Organisational Commitment                   |
| OST     | Organisational Support Theory               |
| РАК     | Pakistan                                    |
| P-E Fit | Person and Environment Fit                  |
| PJS     | Perceived Job Stress                        |
| POS     | Perceived organisational support            |
| PR      | Personal Resource                           |
| PS      | Personal Strain                             |
| Q-Q     | Quantile-quantile                           |
| RMSEA   | Root Mean Square Error of Approximation     |
| RR      | Rate of Representation                      |
| SEM     | Structural Equation Modeling                |
| SPSS    | Statistical Package for the Social Sciences |
| SS      | Social Support                              |
| THC     | The Health Centre                           |
| TWB     | The World Bank Report                       |
| UK      | United Kingdom                              |
| UKPS    | UK Professional Standards Framework         |
|         |   |

# LIST OF FIGURES

| Figure 1. 1: Source - "The Workplace Survey 2016: Results and Analysis" (Grove, 2016)           | 17       |
|---|----------|
| Figure 1. 2: "Increasingly unwell at the workplace" (GWI, 2016)                                 |          |
| Figure 1. 3: "Increasing unwell at the workplace" (GWI, 2016)                                   | 19       |
| Figure 1. 4: "Anxiety Index Study - Global Report 2013" (Tribune, 2013)                         | 19       |
| Figure 1. 5: "Anxiety Index Study - Global Report 2013" (Tribune, 2013)                         |          |
| Figure 1. 6: Ilustratative own interpretation of Global Report (2013).                          | 20       |
| Figure 1. 7: "Government expenditure on the Education in the UK and Pakistan" (The World Ban    | k, 2015) |
|   | 21       |
| Figure 1. 8: "HDI of the UK and Pakistan" (Human Development Report, 2016)                      | 23       |
| Figure 1. 9: "Comparison of the different attributes of the UK and Pakistan" (HDI Report, 2016) | 24       |
| Figure 2. 1: Adapted from Kundaragi and Kadakol (2015)  | 41       |
| Figure 2. 2: 'Phases in stress development' (Oyetimein, 2009)                                   |          |
| Figure 2. 3: Types of stressors Adapted from Stranks (2005)                                     |          |
| Figure 2. 4: Types of Stress consequences Adapted from Stranks (2005)                           | 45       |
| Figure 2. 5: 'General Adaptation Syndrome' (Stranks, 2005)                                      |          |
| Figure 2. 6: The Job-demands and Job-control Model (Karasek, 1979)                              |          |
| Figure 2. 7: Siegrist's Effort-and-Reward Model (Söderberg, 2014)                               |          |
| Figure 2. 8: The DRIVE Model (Mark and Smith, 2008)   | 65       |
| Figure 2. 9: New Dimension added to existing DRIVE Model  | 67       |
| Figure 2. 10: G-GCT used for organizational commitment through the DRIVE Model                  | 68       |
| Figure 2. 11: 'Antecedents of Organisational Commitment' Adapted from Mowday et al., (1979).    | 76       |
| Figure 2. 12: Comparison of Pakistan and UK (geert-hofstede.com, 2017)                          |          |
| Figure 3. 1: Self-constructed framework to demonstrate variables of interest                    |          |
| Figure 3. 2: Self-constructed conceptual framework for the present study                        |          |
| Figure 3. 3: Source - G-GCT (Wildavsky, 2017)   | 90       |
| Figure 3. 4: Source - Features of G-GCT (Wildavsky, 2017)                                       | 91       |
| Figure 4. 1: Types of research philosophies (Saunders et al., 2012).                            | 111      |
| Figure 4. 2: Sampling techniques (Hair et al., 2007).   | 118      |
| Figure 4. 3: Research flow chart of present thesis  | 133      |
| Figure 5. 1: Bar diagrams for equal distribution in terms of economy, gender, and faculty       | 140      |
| Figure 5. 2: Q-Q Plot for normality in the context of Economies                                 | 141      |

| Figure 5. 3: Q-Q Plot for determining normality distribution in terms of gender and faculty       | 142 |
|---|-----|
| Figure 5. 4: Partially Recursive Model demonstrating the relationship                             | 157 |
| Figure 5. 5: The directional path of direct effect of exogenous variables on endogenous variables | 158 |
| Figure 5. 6: Bar diagram containing proportions of causes of stress.                              | 163 |
| Figure 5. 7: Bar diagram containing proportions of consequences of stress                         | 164 |
| Figure 5. 8: Multiple regressions on the affective commitment in contrasting economies            | 167 |
| Figure 5. 9: Multiple regressions on the normative commitment in contrasting economies            | 171 |
| Figure 5. 10: Multiple regressions on the continuance commitment in contrasting economies         | 174 |
| Figure 5. 11: Multiple regressions on the affective commitment in contrasting genders             | 180 |
| Figure 5. 12: Multiple regressions on the normative commitment in contrasting genders             | 183 |
| Figure 5. 13: Multiple regressions on the continuance commitment in contrasting genders           | 186 |
| Figure 5. 14: Multiple regressions on the affective commitment in contrasting faculties           | 191 |
| Figure 5. 15: Multiple regressions on the normative commitment in contrasting faculties           | 193 |
| Figure 5. 16: Multiple regressions on the continuance commitment in contrasting faculties         | 196 |
| Figure 5. 17: Frequency of interview respondents in contrasting economies                         | 200 |
| Figure 5. 18: Most liked job-related feature at the public universities in Pakistan and the UK    | 201 |
| Figure 5. 19: Most disliked job-related feature at the public universities in Pakistan and the UK | 203 |
| Figure 5. 20: Dislike feature affecting employees at the public universities.                     | 206 |
| Figure 5. 21: Ways to overcome negative impact  | 208 |
| Figure 5. 22: Effectiveness of the Occupational therapist.  | 211 |
| Figure 5. 23: Social support and effectiveness of the social support                              | 213 |
| Figure 5. 24: Type of support attained from social support  | 216 |
| Figure 5. 25: Stress management effectiveness at workplace  | 219 |
| Figure 5. 26: Affective commitment at Universities  | 222 |
| Figure 5. 27: Other employees' visible normative commitment at Universities.                      | 225 |
| Figure 5. 28: Continuance commitment of employees at Universities.                                | 229 |
| Figure 5. 29: Causes of stress at the Universities  | 232 |
| Figure 5. 30: Consequences of stress at the Universities  | 235 |
| Figure 6. 1: New contribution to investigate relationship through lens of G-GCT                   | 271 |
| Figure 6. 2: New dimensions contributed to the DRIVE Model  | 272 |

# LIST OF TABLES

| Table 1. 1: Comparison of components in contrasting economies                       | 21  |
|---|-----|
| Table 1. 2: A Pre-View of Grid-Group Cultural Theory; Some Contrasting Dispositions |     |
|   |     |
| Table 2. 1: Interactional Theories of Stress  |     |
| Table 2. 2: Transactional Theories of Stress  | 69  |
| Table 4. 1: Operatinoalization of variables.  |     |
| Table 4. 2: Current Study Data Collection Procedure                                 |     |
| Table 4. 3: Models applied to quantitative and qualitative analysis                 |     |
|   |     |
| Table 5. 1: Features of quantitative section  |     |
| Table 5. 2: Case Processing Summary   |     |
| Table 5. 3: Reliability Statistics  |     |
| Table 5. 4: Country Proportion: 1=United Kingdom, 2=Pakistan                        | 140 |
| Table 5. 5: Gender proportion: 1=Male, 2=Females, 3=Prefer not to say               |     |
| Table 5. 6: Faculty: 1=Teaching Staff, 2=Non-teaching Staff                         |     |
| Table 5. 7: Test Statistics   |     |
| Table 5. 8: Causes of Stress – Country  |     |
| Table 5. 9: Chi-Square Tests  |     |
| Table 5. 10: Symmetric Measures   |     |
| Table 5. 11: Consequences of Stress – Country                                       | 145 |
| Table 5. 12: Chi-Square Tests   |     |
| Table 5. 13: Symmetric Measures   | 146 |
| Table 5. 14: Causes of Stress – Gender  | 147 |
| Table 5. 15: Chi-Square Tests   |     |
| Table 5. 16: Symmetric Measures   | 147 |
| Table 5. 17: Consequences of Stress – Gender  |     |
| Table 5. 18: Chi-Square Tests   |     |
| Table 5. 19: Symmetric Measures   |     |
| Table 5. 20: Causes of Stress – Faculty   |     |
| Table 5. 21: Chi-Square Tests   |     |
| Table 5. 22: Symmetric Measures   |     |

| Table 5. 23: Consequences of Stress – Faculty               |     |
|---|-----|
| Table 5. 24: Chi-Square Tests                               | 152 |
| Table 5. 25: Symmetric Measures                             |     |
| Table 5. 26: KMO and Bartlett's Test                        |     |
| Table 5. 27: Communalities                                  | 154 |
| Table 5. 28: Total Variance Explained                       |     |
| Table 5. 29: Critical Ratio and standardized path estimates |     |
| Table 5. 30: Causes of stress                               |     |
| Table 5. 31: Consequences of stress                         | 164 |
| Table 5. 32: Model Summary <sup>a,c</sup>                   |     |
| Table 5. 33: ANOVA <sup>a,b, a'b</sup>                      |     |
| Table 5. 34: Coefficients <sup>a, a,'b</sup>                | 167 |
| Table 5. 35: Model Summary <sup>a,c</sup>                   |     |
| Table 5. 36: ANOVA <sup>a,b, a'b</sup>                      |     |
| Table 5. 37: Coefficients <sup>a, a, b</sup>                | 171 |
| Table 5. 38: Model Summary <sup>a,c</sup>                   |     |
| Table 5. 39: ANOVA <sup>a,b, a'b</sup>                      |     |
| Table 5. 40: Coefficients <sup>a, a, b</sup>                | 174 |
| Table 5. 41: Group Statistics                               | 176 |
| Table 5. 42: Model Summary <sup>a,c</sup>                   |     |
| Table 5. 43: ANOVA <sup>a,b, a'b</sup>                      |     |
| Table 5. 44: Coefficients <sup>a, a, b</sup>                |     |
| Table 5. 45: Model Summary <sup>a,c</sup>                   |     |
| Table 5. 46: ANOVA <sup>a,b, a'b</sup>                      |     |
| Table 5. 47: Coefficients <sup>a, a, 'b</sup>               |     |
| Table 5. 48: Model Summary <sup>a,c</sup>                   |     |
| Table 5. 49: ANOVA <sup>a,b, a'b</sup>                      |     |
| Table 5. 50: Coefficients <sup>a, a, b</sup>                |     |
| Table 5. 51: Group Statistics                               |     |
| Table 5. 52: Model Summary <sup>a,c</sup>                   |     |
| Table 5. 53: ANOVA <sup>a,b, a'b</sup>                      |     |
| Table 5. 54: Coefficients <sup>a, a,'b</sup>                |     |
| Table 5. 55: Model Summary <sup>a,c</sup>                   |     |
| Table 5. 56: ANOVA <sup>a,b, a'b</sup>                      |     |

| Table 5. 57: Coefficients <sup>a, a,'b</sup>  | 194 |
|---|-----|
| Table 5. 58: Model Summary <sup>a,c</sup>   | 195 |
| Table 5. 59: ANOVA <sup>a,b, a' b</sup>   | 195 |
| Table 5. 60: Coefficients <sup>a, a,'b</sup>  | 196 |
| Table 5. 61: Group Statistics   | 197 |
| Table 5. 62: Affective commitment categorization in percentages                     | 223 |
| Table 5. 63: Affective commitment comparison  | 224 |
| Table 5. 64: Normative commitment categorization in percentages                     | 227 |
| Table 5. 65: Normative commitment comparison  | 228 |
| Table 5. 66: Continuance commitment categorization in percentages                   | 230 |
| Table 5. 67: Continuance commitment comparison                                      | 231 |
| Table 5. 68: Occupational class in contrasting economies                            | 238 |
| Table 5. 69: Thread analysis to compare present findings with past research studies | 240 |
| Table 5. 70: Thread analysis Chi-square findings with past research studies         | 248 |
| Table 5. 71: Thread analysis present findings with earlier work of G-GCT            | 255 |
| Table 6. 1: Research questions and research outcomes                                | 259 |

### **CHAPTER ONE: INTRODUCTION**

### **1.1 Introduction**

The introduction the background and context of stress, our research agenda, aims and objectives, followed by the research problem and significance of the study. This chapter also introduces our methodology, definitions of key concepts, and the structure of the thesis.

### **1.2 Background and Context**

Stress is present in life at various stages; it is constructive to some while destructive to others (Haque and Aston, 2016). It is an influencer - disturbing the body's natural equilibrium (Stranks, 2005). Selye classified four types of stress, namely: eustress (good stress), distress (bad stress), hyper-stress (too much stress), and hypo-stress (too little stress), (Garg and Rani, 2014). Stranks (2006) argued that from the point of distress, an individual develops either acute stress or chronic stress.

Organisational commitment is another variable that has been the focus of attention among scholars in organisational behaviour. It is defined as a psychological pact between worker and workplace (Buchanan, 1974). Allen and Meyer (1996) treat it as a positive intent exhibited by employees for attaining the organisational goal (cited Haque and Yamoah, 2014). Affective, normative and continuance commitment are claimed to be distinguishable antecedents of organisational commitment (Mowday *et al.*, 1982; Haque and Yamoah, 2014).

The education sector is critical to the economy, contributing also to society in many ways (World Economic Reforms, 2015). The sector contributes to economic growth and development (ibid). Because stress experienced by staff in educational institutions is higher in developing countries it has been argued that they require support programmes to ensure that they utilise resources more effectively (Fimain and Sontaro, 1983; Terry, 1997). Indeed, Bhatti *et al.*, (2011) and Yusoff and Khan, (2013) argued that stress has a negative impact upon the performance and job satisfaction of employees in Pakistan's education sector.

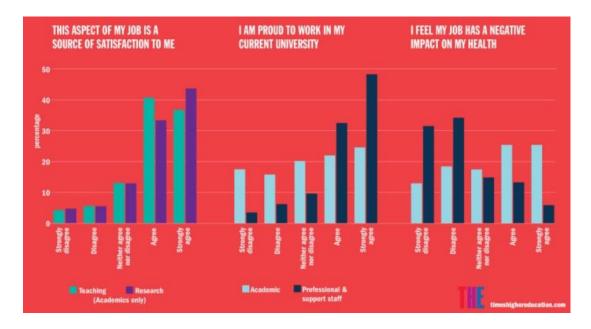


Figure 1. 1: Source - "The Workplace Survey 2016: Results and Analysis" (Grove, 2016)

Grove's workplace survey of 2016, covering more than twenty universities, revealed a difference between academic and non-academic staff concerning job satisfaction, commitment and stress. Overall, academic staff (teaching and research) have higher job *satisfaction* in the university sector (Grove, 2016). However, according to Grove (2016), the *commitment* among professional and support staff is higher (41% against 23%). Job-related stress, affecting the health of academic staff, is higher than among non-academic staff (ibid). Frith (2017) cites Robert Half's Survey which showed that two-thirds (63%) of the UK university workforce experience through their jobs. There is no equivalent survey data for Pakistan and economy and society that offers a useful comparison.

Most of the relevant literature confirms that stress affects employees' wellbeing and performance (Cicei, 2012; Kumasey *et al.*, 2014; Haque and Aston, 2016; Haque *et al.*, 2016; Zehra and Faizan, 2017; Zahid *et al.*, 2017; Zehra *et al.*, 2017), as does the Global Wellness Institute's (GWI) report (2016).



Figure 1. 2: "Increasingly unwell at the workplace" (GWI, 2016)

This report revealed that one of the major causes affecting the wellness of the workforce globally is economic insecurity (77%), followed by health concerns (76%), whereas 38% experienced occupational stress and 24% felt disengaged at work. This report revealed that stress is one of the most significant factors affecting the wellness and, to some extent, the performance of the workforce.



#### Figure 1. 3: "Increasing unwell at the workplace" (GWI, 2016)

The GWI (2016) results revealed that 52% of North American employees have access to wellness (social support) programme and services, followed by Europe (23%), whereas only 5% of Asian employees have access. Here, the UK was included in Europe and Pakistan is included in Asia. Therefore, we can infer that the UK workforce has greater access to wellness programmes at a workplace, than is typical in Pakistan.

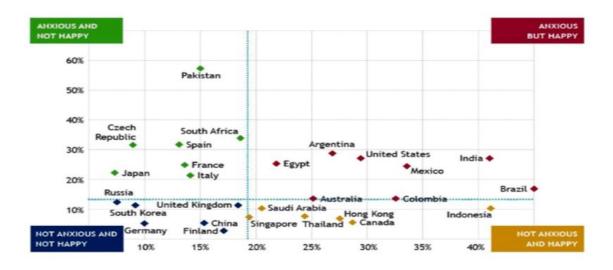


Figure 1. 4: "Anxiety Index Study - Global Report 2013" (Tribune, 2013)

According to the Anxiety Index Study Global Report (2013), Pakistan has a higher number of individuals who are "anxious and not happy" (60%), while, more UK workers are under the "not anxious and not happy" (neutral stage). In other words, whilst stress and anxiety are different concepts, (see Section 1.9), anxiety to some extent reflects stress and depression amongst individuals.

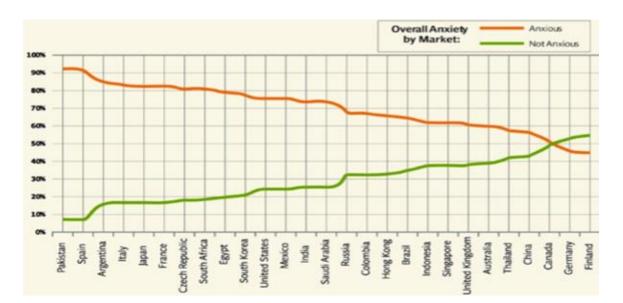


Figure 1. 5: "Anxiety Index Study - Global Report 2013" (Tribune, 2013)

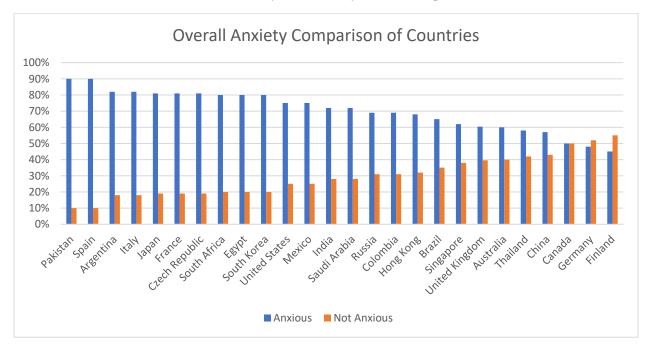
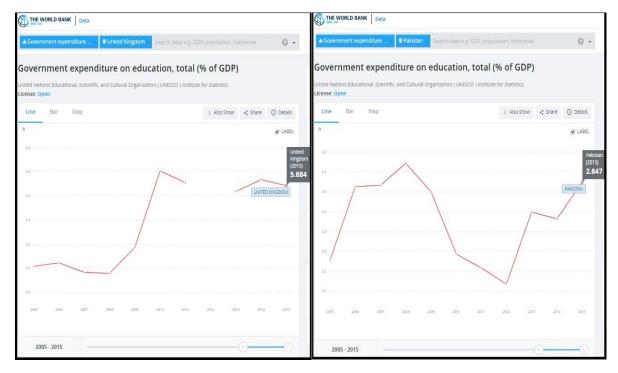


Figure 1. 6: Illustrative own interpretation of Global Report (2013).

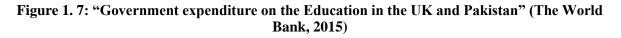
For the ease of understanding, Anxiety Index Study Global Report (2013) are re-presented in bar diagram comparing the percentages of anxious and non-anxious individuals in Pakistan and the UK. It is shown that 9 out of 10 Pakistanis are anxious, while in the UK the percentage is lower (60%). It is believed that Canada sits at the intersection (50% anxious and 50% non-anxious) because of higher levels of social assistance, a protective environment and lower competition for jobs (Burns, 2020; US News, 2020). The above graph and bar diagram show the comparison of

Pakistan with some of the other countries. On the scale of "anxious to non-anxious", Pakistan is the *least contented country* on the scale, while the UK appears to have a much higher number of happy workers, reflecting lower anxiety, depression, and stress. However, there is no direct report to compare and conclude the relationship between the two countries' occupational stress and commitment. In other words, there is no conclusive comparative study which offers an analysis. Moreover, the study above was a general study rather than sector-specific leaving a need for more focused research on occupational stress and organisational commitment in the higher education sectors of the UK and Pakistan.



**United Kingdom** 

Pakistan



The variations within the two countries are presented below:

| Components              | Pakistan | United Kingdom |
|-------------------------|----------|----------------|
| Human Development Index | 0.59     | 0.90           |

| World Ranking                             | 147 <sup>th</sup> | 16 <sup>th</sup> |
|---|-------------------|------------------|
| Education                                 | 8.1               | 16.3             |
| Budget spending on Education              | 2.6%              | 5.68%            |
| Education Sector contribution to GDP      | 3.6%              | 2.8%             |
| Gender Inequality in the Education sector | 0.38              | 0.83             |
| Employment Vulnerability                  | 51.0              | 59.3             |

Currently, the government of Pakistan is spending 2.64% of its budget on the education sector (The World Bank Report, 2015; Higher Education Workforce Survey, 2015), while its universities are estimated to contribute 3.6% to GDP (Ministry of Education, 2015). Conversely, UK government spending on the education sector is 5.68% (TWB Report, 2015), while its universities are estimated to contribute 2.8% to GDP (HEWS, 2015; UKPS, 2016). Interestingly, the government of Pakistan spends less in comparison to the UK government, but the Pakistani education sector's contribution is higher than is the UK's education sector.

Chaudhry (2012) finds a negative relationship between stress and job satisfaction within universities in Pakistan. Danish *et al.*, (2015) argued later that organisational commitment and job satisfaction results from organisational climate and Khan *et al.*, (2015) reported that stress affects the organisational commitment of employees in Pakistan. Nevertheless, these studies focused on teaching faculty, while the present study attempts to examine both academics and administrators using a multi-dimensional approach to these variables of interest. Jackson and Rothmann (2006) found a surprising positive relationship between job stress and organisational commitment in the UK education sector, while Khatibi *et al.*, (2009) identified a negative relationship between stress and organisational commitment in educational institutions. We see a need to investigate these relationships more depth, explicitly in the education sectors of the UK and Pakistan.

The UK and Pakistan were chosen based on the researcher's axiological view. His priorities are reinforced by the huge difference in the Human Development Index (HDI) of these two countries.









The above figure gives an HDI for the UK of 0.900 whereas Pakistan's HDI is 0.550. It indicates that the UK's HDI is *double* that of Pakistan's. Detailed analysis revealed that the UK's HDI is more stable than Pakistan's which has improved at a constant rate during the last half decade. The UK is ranked 16th while Pakistan is lying at 147th, which reflects the enormous differences between the two economies.

| United Kingdom<br>+ Health                          | Life expectancy atoms years<br>80.8                             | Pakistan<br>∔ Health                 | Life expectancy at orm (jean)<br>66.4                           |
|---|---|--------------------------------------|---|
| + Education   | Expected year of schooling years 16,3                           | + Education                          | Expected years of schooling (years)<br>8,1                      |
| <ul> <li>Income/Composition of Resources</li> </ul> | Genos national license (GNU per capita (1011 PPP)) $37,931$     | + Income/Composition of Resources    | Gross national Income (GNI) per capita (2011 999)<br>5,031      |
| + Inequality  | inequality-edjuster ndi in-01<br>0.836                          | + Inequality                         | inequality-adjustes (40 (HO)<br>0.380                           |
| + Gender  | Gender Development inder (GO)<br>0.964                          | + Gender                             | Gender Davekopment Innoer (60)<br>0,741                         |
| + Poverty   | Muttalmensional Poverty Index (NP)<br>N.a.                      | + Poveny                             | Nutodimetsional Poiety index (NP) 0,237                         |
| + Work, employment and vulnerability                | Employment to population ratio (% ages 15 and<br>other)<br>59.3 | + Work, employment and vulnerability | Employment to population ratio (% age: 15 and<br>other)<br>51.0 |
| + Human Security                                    | Homicide rate (per 100,000 people)<br>0,9                       | + Human Security                     | Homicide rate (per 100,000 pergile) $7.8$                       |
| + Trade and Financial Flows                         | Exports and imports (% of COP) $56.8$                           | + Trade and Financial Flows          | Exports and imports (% of GDP) 28.1                             |
| + Mobility and Communication                        | internet users (% of population)<br>92.0                        | + Mobility and Communication         | internet users (% of population)<br>18,0                        |
| + Environmental sustainability                      | Carton divide emissions per capita itomesi<br>7,1               | + Environmental sustainability       | . Carbon divide emissions per capita itomeel $0.8$              |
| + Demography  | Population, total imiliono<br>64,7                              | + Demography                         | Population, total (million)<br>188,9                            |

#### **United Kingdom**

#### Pakistan

#### Figure 1. 9: "Comparison of the different attributes of the UK and Pakistan" (HDI Report, 2016)

The above-mentioned comparative figure shows different attributes of the two economies. However, in the education sector, there is a massive difference, as the UK has a score of 16.3 while Pakistan has a score of approximately half (8.1). Interestingly, *inequality is higher* in the UK at 0.836, while Pakistan scored comparatively lower (0.38). It is reasonable to infer that occupational stress and the level of commitment will vary in these different economies. Additionally, work, employment and vulnerability are higher in the UK in contrast to Pakistan (59.3 to 51.0). This is not too significant a difference, but it could affect the performance of the workforces. This study

attempts to fill this identified gap. Additionally, despite Pakistan having a lower HDI than the UK, both countries are experiencing higher stress levels and challenges regarding retaining employees in the education sector (Metcalf *et al.*, 2005; CIPD Annual Report, 2007; Haq, 2013; HEWS, 2015, Akhtar *et al.*, 2015; Nasir and Mahmood, 2016; HCEC, 2017).

The researcher has extended the parameters by considering the education sectors of the UK and Pakistan, owing to its reputation of being one of the few sectors to contribute significantly towards GDP during the post global economic recession of 2008 (TWB Report, 2015; HEFCE, 2015). Furthermore, the trends, operations, and structure of higher education in both countries are similar (Ramzan, 2015), yet Saleem and Qamar (2017) found that the ratio of employee turnover and low job satisfaction is significantly higher amongst university in Pakistan. Henley *et al.*, (2016) reported that 15% of UK university staff might quit their jobs owing to Brexit. Indeed Savage (2017) revealed that a 25% of UK teaching staff had left their jobs after 2011 and, in the last five years, the tally has increased to 31%. The trends, variations and challenges in both countries' education sectors are similar to a large extent and detailed analysis is needed to tease-out variations in occupational stress and its effect on the organisational commitment of both academic and non-academic (administrative) staff. This thesis critically examines the relationship between research variables in the education sector of the UK and Pakistan by exploring variations through gender and faculty type.

Researchers usually opt for comparative analysis as it tends to be more informative and offers the prospect of generalizability greater than with single case analysis (Goodrick, 2014; Haque and Aston, 2016; Gustafsson, 2017; Haque, Aston, and Kozlovski, 2018). In other words, rather than limiting the study to the 'region-specific context', the researcher attempts to gain superior knowledge through a 'cross-cultural context' (Haque *et al.*, 2018). Furthermore, although there are visible differences in various aspects including, anxiety, HDI and cultural context, there are, however, some similar trends and variations in these two distinctive economies (Ramzan, 2015). Comparative analyses of the UK and Pakistan exist, but address the IT and Logistics sectors (Haque and Aston, 2016; Haque *et al.*, 2016), or government expenditure on education (Ramzan, 2015). There is no comparative study of the relationship between varying occupational stressors and the organisational commitment of academic and non-academic staff in Pakistan and the UK. Hence this study.

### **1.3 Research Problem**

#### 1.3.1 The Research Agenda

Reedy (2009) defines a research agenda as focus on specific ideas and issues within the broader research field's subset. Hoque *et al.*, (2017) argued that a research agenda is a strategic plan, focusing on certain attributes and associated issues for a time duration. Our specific focus is the relationship between occupational stress and organisational commitment within the universities of the UK and Pakistan. The primar focus is on how variations in occupational stress act as antecedents for organisational commitment, namely: Affective Commitment (AC), Normative Commitment (NC) and Continuance Commitment (CC) among teaching and non-teaching, public university staff in the contrasting economies. We are interested in the causes and consequences of stress, the role of social support programmes, the effectiveness of the professional occupational therapy, perceived job satisfaction and Hofstede's cultural dimensions as well as a specific cultural theory known as Grid-Group Cultural Theory. The researcher has narrowed the research to personal stressors, organisational stressors and environmental stressors. Here the consequences of stress are treated in terms of physical, cognitive, behavioural and emotional symptoms.

Previous researchers have concentrated on personal stressors, organisational stressors and only three types of consequences (physical, behavioural and emotional), while this study promises greater depth. The focus of this project is multi-dimensional, considering gender, faculty (teaching and non-teaching) and contrasting economies (emerging and developed).

This study revolves around occupational stressors affecting the organisational commitment of teaching and administrative staff in both the UK and Pakistan. Hence, all of the variables in question (indirect and direct) require consideration.

#### 1.3.2 Background of research problem

There is mixed evidence from previous empirical studies regarding the nature of the relationship between our chosen variables. Several studies in both the UK and Pakistan have confirmed a relationship between occupational stress and organisational commitment. Furthermore, the role of an occupational therapist is more established in the West than in the East and there is limited evidence as to the effectiveness of the occupational therapy in HE. Limited evidence is available regarding the role of social support programmes within the education sector, in reducing occupational stress and increasing organisational commitment.

The DRIVE model (see below) has been developed but it is yet to be used to measure variations of a relationship in a complex environment. The DRIVE model is the simplest model for explaining stress in complex environment (Haque and Aston, 2016). This raise a question of how simple or complex a model or theory needs to be for explaining perspective. In this regard, Ockham's razor could be useful. Schaffer (2015) explained Ockham's razor as, "a problem-solving principle that indicates, entities should not be multiplied without necessity". In other words, if a simple and a complex eplanation match the evidence equally well, then choose the simple one (Baker, 2010; Hoffman, Minkin and Carpenter, 1997). Occam's razor is a rule-of-thumb (heuristic) which states that when same predictions are made by competing hypotheses then the explanation containg the fewest assumptions should be selected (Hoffman et al, 1997). The principle does not apply to the selection between hypotheses that are making different predictions (Sober, 2015). See also Hugh (2003). "The preference for simplicity in the scientific method is based on the falsifiability criterion" (Hoffman et al., 1997; Hugh, 2003; Sober, 2015). For every single explanation of a phenomenon that is accepted, there might be an exceptionally large, possibly incomprehensible number of complex alternatives (Schaffer, 2015; Sober, 2015). "Since one can always burden failing explanations with ad hoc hypotheses to prevent them from being falsified, simpler theories are preferable to more complex ones because they are more testable" (Sober, 2015). In the light of Ockham's razor explanation, we prefer the simplest possible for a in complex environment.

We wish to understand which is the most dominant and which is the least active cause of stress for contrasting genders in teaching and administrative staff in distinctive economies. Sacky and Sanda (2008), Sacky and Sanda (2011) and Haque and Oino (2017) investigated the role of social support in reducing stress, while Kumasey, Delle and Ofei (2014), Haque and Aston (2016) and Haque *et al.*, (2016) examined links between occupational stress and organisational commitment. At present, however, there is no single combined study that has considered all the aspects within one construct. Moreover, the effects of occupational therapy on organisational commitment have not been placed within the cosnstruct we have in mind.

#### **1.3.3 Problem statement**

Here, then, is our problem statement:

"What is the effect of varying occupational stressors on the organisational commitment of teaching and administrative staff working in public universities in the UK and Pakistan? Additionally, are professional occupational therapists and social support programme inside the universities effective in reducing stress and/or enhancing organisational commitment? Do the causes and consequences of stress vary for individuals considering their distinctive gender, faculty and economies of interest?

To clarify this problem statement further, the researcher has sub-divided it:

- In what capacity do distinctive stressors affect the antecedents of the organisational commitment of teaching and administrative university staff in the UK and Pakistan?
- What are the different types of consequences resulting from the occupational stress of teaching and administrative university staff in the UK and Pakistan and how are these interlinked with the antecedents of organisational commitment?
- How effective are the existing social support programme in reducing occupational stress and/or enhancing the organisational commitment of teaching and administrative university staff in the UK and Pakistan?
- How effective is the role of the professional occupational therapist in the education sector in reducing the occupational stress and/or enhancing the organisational commitment of teaching and administrative university staff?
- What is the nature of the relationship between the occupational stress and organisational commitment of teaching and administrative university staff in the UK and Pakistan?

### **1.4 Research Questions**

Our primary research question remains "Does a relationship exist between the occupational stress and organisational commitment of the teaching and administrative, public university staff in the UK and Pakistan?" The sub-questions are as follows:

• How do the varying stressors, namely: personal, organisational and environmental stressors, affect the affective, normative and continuance commitment of teaching and administrative university staff in the UK and Pakistan?

- How do the physical, behavioural, cognitive and emotional consequences concerning the distinctive antecedent of organisational commitment, vary between the teaching and administrative public university staff in the UK and Pakistan?
- Are social support programmes effective in sustaining human capital within public universities in the UK and Pakistan?
- To what extent are the visibility and effectiveness of the professional occupational therapist's roles evident in public universities in the UK and Pakistan?

### **1.5 Aim**

Based on the above problem statement and research questions, the researcher has developed the aim of this project.

This study aims "to investigate the role of social support programme and the effectiveness of the occupational therapist in dealing with the varying occupational stress and sustenance of organisational commitment of the teaching and non-teaching university staff of contrasting economies."

### **1.6 Objectives**

In support of the aim mentioned, here are the research objectives:

- To examine the varying occupational stressors affecting the organisational commitment of males and females working at teaching and non-teaching faculties within the public universities of the UK and Pakistan.
- To examine the varying consequences of occupational stress among males and females working at teaching and non-teaching faculties within public universities of the UK and Pakistan.
- To evaluate the potential impact of the effectiveness of the occupational therapist, perceived job stress, personal strain, personal resources and social support on the organisational commitment of public universities' personnel in the UK and Pakistan.

### **1.7 Significance of the project**

Stress and commitment are, frankly, important for both theoeretical and practical reasons. Higher education is fast-paced, and it follows that we should know if its stresses affect the commitment of professionals in the education sector. It makes sense to ask whether the culture of the industry vary internationally and whether beneficial practices in one part of the world could be transformed to another part. Does a culture have an effect on stress and commitment, bearing in mind the very different levels of anxiety between the two countries presented above? This thesis is an attempt to offer understanding and strategic solutions for high stress and low commitment.

A large literature is available for occupational stress and organisational commitment (Haque and Aston, 2016; Kumasey *et al.*, 2014; Sacky and Sanda, 2011). However, it tends not to be comparative in the sense we seek concerning our variables of interest. Hence, this study is a comparative analysis of the higher education sectors of two contrasting economies, to include the effects of social support programmes on our variables (stress, commitment, gender, university staff distinguished by occupational class) where there has been no such study.

|                   | Gender | Occupational Class |   |
|-------------------|--------|--------------------|---|
| United<br>Kingdom | Male   | Academics          | Members enjoying competitive game playing   |
| Kingdom           |        | Administrator      | Worried persons in an insecure labour market trying<br>to survive another month in temporary hourly paid<br>jobs          |
|                   | Female | Academics          | Game-players out to win   |
|                   |        | Administrator      | Devotees pursuing their vocation or calling   |
| Pakistan Male     |        | Academics          | Members of a collective movement aiming to change<br>the world for the benefit of everybody, such as<br>education for all |
|                   |        | Administrator      | Surface actors playing a role while pretending that they care   |
|                   | Female | Academics          | Colleagues competing fiercely for rapid promotion   |
|                   |        | Administrator      | Workers doing a job   |

Table 1. 2: A Pre-View of Grid-Group Cultural Theory; Some Contrasting Dispositions

The occupational stress could mean an additional motivation for the male academics in the UK and Pakistan as they may enjoy either being members of team or individualistic competitive game players. Interestingly, in Pakistan, males prefer to work collectively for a change, while academic staff in both countries have higher commitment than administrative staff. On the other hand, males in administrative roles at the UK and Pakistan may find occupational stress a disturbance to operations because they are working not for an elrevated ideal, but to survive. What we are suggesting is that the nature of commitment may vary with occupation and across different rationalities. Employees may have commitments which vary in nature as well as intensity.

It could be argued that male academics seek to prove their worth in a competitive academic job market. Females working in academics in the UK are also reported to be committed to proving their worth and make the most from the opportunities. Similarly, females working in academics in Pakistan also showed higher commitment to demonstrate they remain competitive. Nevertheless, it could be argued that the higher the competition, the higher the stress, at least for those who do not relish competition. Conversely, as we will see, male administrators reported both lower commitment and lower stress in both countries whereas female administrators in the UK reported devoting themselves to their vocation and in Pakistan, it appeared that routine worker were more likely to be 'just doing a job'. Thus, this thesis found that both occupational class and 'cultural' rationalities may have an effect on occupational stress and organisational commitment.

It will be reported that what occupational stress and organisational commitment mean to each category of employee may be very different. It takes too much of time and effort for the academic staff to strengthen their position in the higher education industry in comparison to administrative staff. Previously, studies have not explored this dimension. G-GCT helps to explain why some have low risk appetite (a pressing need to manage what they experience as high stress) while other have high risk appetite and remain resilliant under stress.

Occupational therapy is well-established in developed economies (Stoica and Buicu, 2010). In emerging economies, however, it is sparse. Moreover, there are differing cultural and social norms which may lead to stress being handled in different ways, and in particular without reliance on that stranger: the occupational therapist.

Sustaining human capital has been a developing concern among organisations and students of organisations and this project seeks out various 'stressors' affecting organisational commitment adversly. Although occupational therapy has also developed in the West, the effectiveness of this role has not been studied in depth in Pakistan, so we also wish to evaluate its effectiveness, particularly in higher education.

This study distinguishes different stressors and their different impacts across two occupational categories and contrasting economies, explored through self-reporting by a large survey and interview sample of HE employees. Previous studies mostly adopted a one-dimensional approach whereas we take a more discerning multidimensional approach. We seek to establish a standardised approach out of which we trust global organisational standards for sustainable organisational commitment and stress reduction will emerge. The DRIVE model of stress proposed by Mark and Smith (2008) has yet to be used in complex organisations and this project is unique in testing the DRIVE model of stress in the HE complex education sectors of two countries that differ historically, socially, culturally and institutionally by varying degrees.

#### **1.8 Overview of undertaken methodology**

We prefer comparative analysis (Bennett, 2004; Haque and Aston, 2016; Bartlett and Vavrus, 2017; Haque, Aston, and Kozlovski, 2018) for its potential to yield theoeretical developments and generalisations. The researcher has used a "hypothetico-inductive-deductive" (abductive) approach for literature development and a "hypothetico-deductive-inductive" model for case analysis, proposed by Sekaran and Bougie (2012) (for further details, See Appendix F).

Cross-sectional research design is used to investigate variables of interest through forming subgroups to compre gender, faculty and type of economy (Benett, 2004; Sekaran and Bougie, 2012; Haque and Aston, 2016; Haque *et al.*, 2016; Zehra *et al.*, 2017; Bartlett and Vavrus, 2017; Haque *et al.*, 2018) (for further details See Appendix F).

We apply the following criteria of inclusion and exclusion. The researcher included only institutions operating in the UK and Pakistan, in particular public universities. Private universities were excluded from this study, because so few exist in the UK, unbalancing our sampling processes had they been included. We include only professional administrative and teaching personnel. We set a lower age limit of eighteen years of age. Some professionals above sixty-five

years of age work on a contractual basis and we opted to include them. We included only literature published in the previous two and a half decades. This is to ensure that the research is in keeping with present research concerns.

We developed a self-administered, semi-structured questionnaire using matrix-based ordinal LIKERT scales. We used forced forced choices eliminating 'neutral' responses. Our 6-point scale ran 1 = Strongly Disagree, 2 = Disagree, 3 = Moderately Disagree, 4 = Moderately Agree, 5 = Agree, and 6 = Strongly Agree. We took the methodological decision that excluding Neutral responses increases sensitivity to causal relationships between dependent and independent variables. The semi-structured interviews were included to add depth and provide a check on the quantitative results. (See Appendix A and Appendix D.) Using an on-line, GOOGLEDOC survey form, the survey was circulated through gatekeepers in the UK and, after reaching a substantial target audience, the same questionniare was circulated in Pakistan, by means of similar gatekeepers. We combined probability and non-probability sampling techniques, adapting Haque et al., (2018) strategy for bias reduction by stratifying respondents into major groups, to ensure their proportionate representation. The marginal error formula was applied to determine the minimum number of respondents required, following Rumsey (2002), LeBlanc (2004), and Jamal (2013). The formula showed the minimum number of respondents required as 384.14; therefore, over 384 respondents are calculated to be sufficient to draw a logical conclusion which we exceeded (n=408), 204 respondents in each country with equal representation in terms of gender and occupational categories. AMOS and SPSS 23.0 were used for statistical analysis.

At the second stage, interviews were carried out both face-to-face and by SKYPE, again with teaching and non-teaching staff, first in Pakistan then the UK. We determined the interview sample size by finding the 'saturation-point': which proved to be forty-nine, at which responses were becoming highly repetitive in Pakistan and to balance this sample forty-nine interviews were held in the UK. A thematic analysis was applied to the interview evidence.

#### **1.9 Definition of Key terms**

For the purpose of clarity and standardisation, all key concepts are defined below:

*Stress:* "Stress is your body's reaction to a trigger and is generally a short-term experience. Stress can be positive or negative. When stress kicks in and helps you pull off that deadline you thought

was a lost cause, it's positive. When stress results in insomnia, poor concentration, and impaired ability to do the things you normally do, it's negative" (Hurley, 2019). It could be said that it is a response in any situation to what an individual might perceived as threat or something new or perhaps wven exciting becauses it is different.

*Anxiety:* "It is a sustained mental health disorder that can be triggered by stress" (Hurley, 2019). It doesn't go away or diminish too far once the threat causing it is mediated, but hangs around to re-emerge again. It could cause demage to occupational, social and other functionalities (Hurley, 2019).

Thus, in this thesis, stress and anxiety are considered as two different attributes. Anxiety is one of the disorder that is linked with stress. Perhaps, it could be said that anxiety is the resultant of stress but stress is not the resultant of anxiety because stress could be good while anxiety is disorder resulting from disorder. In fact, anxiety, depression, strokes, heart attack, obesity, hypertension, gastriontestinal distress are some of the physical and emotional disorders interlinked to stress (Hurley, 2019).

*Organisational commitment (OC):* Buchanan (1974) treats it as a "psychological pact" between the workers and their respective organisations.

Individuals' commitment towards the organisation by reflecting voluntary efforts to accept the organisational norms and continue with the same organisation (Porter et al. 1974). Based on this definition, Mowday et al. (1979) termed affective, normative and continuance commitment as the three antecedents of organisational commitment.

*Affective commitment (AC):* "Affective commitment is when employees offer voluntary efforts for the attainment of organisational goals because they treat the organisational goals and targets as their own goals and targets" (Mowday *et al.*, 1979; cited Haque and Yamoah, 2014).

*Normative commitment (NC):* "The employees report normative commitment by showing their consent and acceptance of organisational values and, thus, reflecting that the values and beliefs of those organisations are taken as a norm by the employees" (Mowday *et al.*, 1979; cited Haque and Yamoah, 2014).

*Continuance commitment (CC):* "Continuance commitment is demonstrated by the employee through their willingness to be affiliated and associated with the same organisation, as this reflects that a person wants to continue working for the same organisation" (Mowday *et al.*, 1979; cited Haque and Yamoah, 2014).

*Job satisfaction (JS):* Robin and Judge (2009) by explaining it as "an additional variable, inside the organisational setting, used for the assessment of individuals' feelings arising from work and workplace environment" (p. 65).

Ivancevich and Matteson (2002) considered it to be the individual's attitude and feelings resulting from the perfect match between their perception and real experience by him/her at work whereas Sempane et al., (2002) sum up that with the job, the evaluation and perception of the employees based on their values, needs and expectations are driving their feelings, and if they are happy about work, then feelings will be regarded as job satisfaction. Hence, JS tends to escalate because of the employees' positive perceptions and evaluations.

*Social support:* Sackey and Sanda (2011) define it as, "a support at the workplace from colleagues, peers and supervisors to make individuals feel part of the organisation". On the other hand, Fairbrouther (2011) defined it as, "social support is the physical and emotional comfort given to us by our family, friends, co-workers and others. It is knowing that we are part of a community of people who love and care for us, and value and think well of us" (p. 7).

*Organisational climate:* "When employees in a particular work unit agree on their perceptions of the impact of their work environment, their shared perceptions can be aggregated to describe their organisational climate" (Jones and James, 1979; cited Glisson and James, 2002; p. 767). On the other hand, according to Isaken and Ekvall (2007), "it is a recruiting patterns of attitude, behaviour and feelings that characterize life in their organisation" (p. 2). Thus, it could be said that it is a shared beliefs' set and attitudes in relation to the organisation, which is perceived by its members.

*Environment:* In general, elements, objects, things, systems or circumstances that surround a person is regarded as environment (Webster, 2019). The literal meaning of environment is surrounding (environs), which could be regarded as a field or space when networks of interactions, interconnections and relationships occur between entities. Considering, business environment in simple term would refer to the forces and factors affecting the ability of the organisation. Duncan

(1972) defined it as, "the totality of physical and social factors that are taken directly into consideration in the decision-making behaviour of individuals in the organisation" (p. 313). The internal elements of the organisation form internal environment while external environment consist of two types, namely, external microenvironment (small external forces) and external macro environment (large societal forces).

*Environmental stressors:* According to Stranks (2005), environmental stressors are all those factors that are external forces affecting the organisation and its employees. Stranks categorized environmental stressors as political uncertainties, economic uncertainties, and technological uncertainties that causes stress. After briefly defining environment, this study categorized the environmental factors as macro external forces affecting the operations and abilities of the organisation and its workers.

*Culture:* According to Herskovits (1948), "Culture is the man-made part of the environment" (p. 17) while Mead (1953) defines culture as, "the total shared, learned behavior of a society or a subgroup" (p. 22). Richardson and Boyd (2005) defined culture by stating that the behaviour of the individual being affected by the capable information acquired from other individuals by means of imitation, teaching and other pattern of social transmission. it could be concluded that common features shared by social group inhabitants. However it is important to note that Grid-Group Cultural Theory departs very strongly from this view of culture (below) by defining it in terms of four *competing but equally rational 'thought styles' which members of any community will not be able to agree on.* In this sense culture *is not* what stays the same, but which changes perpetually or stochastically.

*Organisational culture:* Richard Perrin said, "Organizational culture is the sum of values and rituals which serve as 'glue' to integrate the members of the organization" (cited Watkin, 2013). Organisational culture reflects certain shared views and the story of people within the organisation because they together form the way things happen. It also reflects what people inside the organisation value becomes the part of way things take place inside. It is often a social control system (Watkin, 2013). Certain norms being upheld while social sanctions are imposed on all to stay within those lines, indicating that it is the immune system of the organisation (Watkins, 2013). However, note that in Grid-Group Cultural Theory (G-GCT) it is *disagreements* which bind us together.

*Personal stressors*: Conditions, attributes or events that occur in the life of people that could impact the health and wellbeing of them (ABS Gov, 2010). On the other hand, Stranks (2005) argued that these are personal attributes such as, family problem, personality clashes, and family problem which causes stress among the working individuals.

*Organisational stressors*: All those events, conditions, policies and features that takes place in the organisation that might causes stress among the employees, such as, organisational structure, role demand, task demand, life-cycle of the organisation, interpersonal relationship, and organisational leadership (Stranks, 2005; Haque and Aston, 2016). It reflects that all such elements interlinked with the organisation or events occurring at workplace that might affect the health or wellbeing at workplace are considered as organisational stressors (Haque et al., 2018).

*Work employment and vulnerability*: A contract between two parties namely, worker and employer stating particular job description and specification to be carried by worker against salary or wages is work employment (Daken and Armstrong, 1989). One party is employee while the other might be an employer in the form of organisation, corporation, NGO, co-operative or any other entity (Daken and Armstrong, 1989). On the other hand, vulnerability is an increased risk, which are yet not materialised because to larger extent it is not directly observable (Greenan and Seghir, 2017).

*Human Development Index (HDI):* According to UNDP (2018), "the Human Development Index (HDI) is an index that measures key dimensions of human development. The three key dimensions include a long and healthy life, access to education, and a decent standard of living" (cited Roser, 2019). In this thesis, HDI is used as a criterion to compare the different properties of developed and developing country.

*Personal resources*: Personal resources are also regarded as psychological capital defining withinperson capacities of hope, resilience, optimism and self-efficacy (McCann, 2011). On the other hand, plethora of research considered personal resources as "personal mastery beliefs" that reflects the tendency of controlling ill outcomes through using personal features such as self-efficacy and optimism (Bobak et al. 1998; Seeman and Lewis, 1997; Bulatao and Anderson, 2004). Personal resources are effective to reduce risk behaviour and health disadvantages (Bulatao and Anderson, 2004). In this thesis, personal resources are considered as the features creating the ability within the individual to deal with stressors at workplace.

*Personal strain*: Farber (1983) argued that it is not always stress that exhaust individuals, but strain also is vital component in the organisational setting (Zamir and Hina, 2005). The pressure exerted on the individuals by themselves to be more competitive at work is regarded as personal strain (Robert, 2015). In this thesis, personal strain are chain of events and personal set milestones to be more competitive at workplace exerting pressure on the employees.

*Perceived job stress*: It is the feeling, perception or thoughts that a person has about the job creating a stress in a given time period (Philips, 2013). In other words, the feeling or perception about work or task at office has or will create a certain amount of stress is regarded as perceived job stress.

*Occupational therapists*: They are professionals with university-education while has passed a licensing exam to practice (WFOT, 2017). They are someone who "helps people across their lifespan participate in the things they want and need to do through the therapeutic use of everyday activities" (occupations). Common occupational therapy interventions include helping children with disabilities to participate fully in school and social situations, injury rehabilitation, and providing supports for older adults experiencing physical and cognitive changes (AOTA, 2017).

## **1.9 Overview and Structure of the project**

The thesis structure is as follows:

**1.9.1 Literature Review** - This chapter contains theories and models about stress and organisational commitment. It offers a critical review of the key variables of interest including the causes and consequences of stress, perceived job satisfaction, Hofstede's cultural dimensions and the role of the occupational therapist. The chapter also discusses gaps in the literature and develop hypotheses with concluding thoughts.

**1.9.2** Conceptual Framework - This chapter presents the comprehensive conceptual framework developed from the literature review, pinpointing variables of interest, independent and dependent. The case is made for comparative research.

**1.9.3** *Research Methodology* – This chapter discusses our methodology, with justifications. We distinguish 'research' and 'methodology'. In the first section we introduce the research paradigm

(ontology, epistemology, and methodology), the research philosophy, the research type and our axiological commitments. The second section, 'methodology', covers research design, research approach, research process, research instruments, sample size and sampling techniques. We included a pilot study, ways of maximising reliability, validity and of minimising ethical transgressions.

**1.9.4 Findings, Analysis, and Discussions** – Here are the primary results. The statistical test of Cronbach's alpha, Fitness of the data, EFA, and equal and normal distribution (Q-Q) plots are included. The second section contains the quantitative analysis including structural equation modelling through a partially recursive model, a Chi-Square test, and multiple regression for measuring the statistical significance and nature of the relationship between research variables. Our hypotheses are tested and discussed in the light of the literature, followed by thematic analysis of interview responses. We identify how our findings confirm or contradict previous studies.

**1.9.5** Conclusion, Contribution, and Implications – We conclude with a discussion of our findings in relation to our research objectives, followed by what we believe to be our practical and theoretical contributions, including practical recommendations for future researchers and universities.

# **CHAPTER TWO: LITERATURE REVIEW**

# **2.0 Introduction**

The "literature review is an important part of the research process that starts with the identification of the problem and carries on until the conclusion is drawn" (Kumar, 2009, p. 07). This chapter serves as the foundation for a theoretical framework and critical evaluation of earlier studies. The choice of the variables of interest is made as is the case for comparative research.

## 2.1 Stress

"Stress has no single definition because it is a term often not clearly understood by all" (Stranks, 2005). It may even be experienced differently by different individuals according to their understandings and 'thought styles' (see below). It might be pleasant to some while unpleasant to others, depending upon each individual's thinking and ability to comprehend (ibid). Seyle (1936) defined stress as a "common response to attack", while Stranks (2005) argued that "it is an influencer to disturb the natural equilibrium of the human body". Now that different definitions have been noted we need to dig more deeply into the nature (ontology) of stress.

Scholars tend to agree that it is intangible, as it can only be experienced rather than touched (Stranks, 2005; Ekundayo, 2014; Kumasey, *et al.*, 2014), although it has physiological features that can be measured. Stress occurs in the professional life of individuals (Smith *et al.*, 2000; Chang and Lu, 2007; Kumasey *et al.*, 2014).

Schabracq and Cooper (2000) and Mark and Smith (2008) found that stress variation can be explained by the processes and procedures of organisations, technological advancement, globalization and economic fluctuations as the stakes change. These interact to cause variations in organisational efficiency, including adverse variations of special interest here.

Mark and Smith (2008) argued that the changing nature of organisations are creating "stressful" work environments. Many researchers agree that organisational change creates stress for employees, including intense work pressure, job role conflicts, harassment, personality clashes, insufficient holiday entitlement (or none at all!), a lack of direction or no direction at all, poor promotion prospects, a work-life imbalance, excessive working hours, isolation, job insecurity and improper feedback (Griffiths, 1998; Mark and Smith, 2011; Faizan and Zehra, 2016).

Yet there is a school of thought which argues that stress is not always harmful but that a certain intensity, it can be constructive, beneficial and positive, enhancing employees' performance and commitment, though depending upon the situation (Lazarus, 1966; Nelson and Simmons, 2004; Ekundayo, 2014; Haque and Aston, 2016).

# 2.2 Types of Stress

It remains clear enough that certain types and intensities of stress is destructive for some individuals, causing organisational inefficiency, and for others, a motivator which increases organisational efficiency. Thus, it is essential to explore the various types of stress. There are four types of stress commonly identified in employees: eustress, distress, hyper-stress and hypo-stress (Kundaragi and Kadakol, 2015).

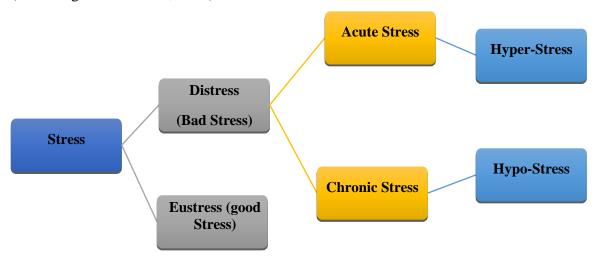


Figure 2. 1: Adapted from Kundaragi and Kadakol (2015)

#### 2.2.1 Eustress

Seyle (1936) coined the word "eustress" for optimal stress, Lazarus (1966) confirming that stress could be constructive for employees. Nelson and Simmons (2004) also found that positive stress is beneficial for *both* employees and organisations. According to Kundaragi and Kadakol (2015), it is a type of stress that makes an individual feel better and demonstrating greater impacts. It activates by increasing individual's energy, enabling them to perform at their best. However, there is no conclusive evidence regarding when good stress turns into bad stress.

#### **2.2.2 Distress**

For Haque and Aston (2016), the opposite of eustress is distress. Kundaragi and Kadakol (2015) describe it as negative stress damaging performance and efficiency. Distress is common in the workplace and if continuous over a long period of time, it transforms into chronic stress (The Health Centre, 2006; Batty *et al.*, 2017) and constant worry (Kundaragi and Kadakol, 2015).

#### 2.2.3 Hyper-Stress

Hyper-stress is a type of stress that is more than manageable for the individual (Kundaragi and Kadakol, 2015) as if pushing them towards their 'breaking point'. For Kundaragi and Kadakol (2015) an excessive workload contributes hyper-stress. On the other hand, Stranks (2005) argued that money is a prime cause of hyper-stress, affecting the performance of individuals both at home and in the workplace, eventually causing continuous strain. However, this type of stress is limited in its effects as employees can continue to work with it (THC, 2006). Hyper-stress is also regarded as a type of acute stress (CSHS, 2010).

## 2.2.4 Hypo-Stress

This is the opposite of hyper-stress, arising when there is boredom and fatigue (THC, 2006; Kundaragi and Kadakol, 2015). Interestingly, this stress makes an individual feel exhausted and results in creating de-motivation owing to performing a repetitive but unskilled task (THC, 2006; Kundaragi and Kadakol, 2015). Inspiration is lost. Interestingly, CSHS (2010) consider hypostress as chronic stress.

## **2.3 Level of Stress**

Individuals experience stress differently (Ekundayo (2014) whether eustress (good stress) or distress (bad stress). Stress does not suddenly arise, but develops gradually, eventually reaching the point where individuals become aware of it, and produce symptoms including reduced functionality (ibid). It may be that stress may differ with gender and occupational group, which we feel warrant closer investigation. Meanwhile scholars have identified three stages of stress: an "alarm stage - (acute stress)" a "resistance stage - (prolonged stress)", and an "exhaustion stage" (Levi, 1972; Oyetimein, 2009; Ekundayo, 2014).

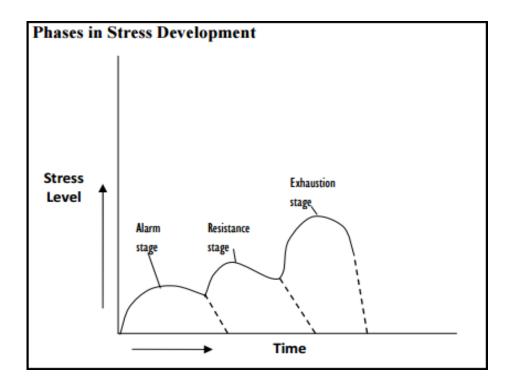


Figure 2. 2: 'Phases in stress development' (Oyetimein, 2009)

Interestingly, the exhaustion stage is also viewed as a result of the *chronic* stage; the alarm stage is *acute*, while resistance is *episodic* (THC, 2006). Ekundayo (2014) explains that at the "alarm stage", the body produces adrenaline which is an adaptive response to stressful situations. The body's organs experience minor changes, such as an increase in pulse rate, faster breathing, problem in digestion, and/or an increase in blood pressure (Ekundayo, 2014). Different types of medication are used to control these changes and restrict the impact of stress (Oyetimein, 2009). The consequences of acute stress may be neutralized or even reversed through medication (Oyetimein, 2009; Ekundayo, 2014).

Ekundayo (2014) explained that the resistance stage is the second stage where the body decides either to fight or take flight owing to the *experience* of stress. Therapy and meditation may assit in returning an individual to equilibrium (ibid). However, if there is a defense mechanism breakdown, it has been argued that a complete failure of resistance, will take an individual to the point of exhaustion, the final stage (Oyetimein, 2009; Ekundayo, 2014).

In other words, when elastic limits are exceeded, normal functionality is damaged (Oyetimein, 2009; Ekundayo, 2014). This form of argument is similar to the way engineers think about the point at which a structural member fails permanently under a stress loading. Chronic stress is

evident and result in severe nervousness and psychological or physical *breakdown* (Oyetimein, 2009). Ekundayo (2014) argued that if the exhaustion stage is continuous over a long period of time, there is the possibility of severe problems including: mental illness, depression, diabetes, ulcer and cardiovascular problems.

# 2.4 Causes and Effects of Occupational Stress at the Workplace

"Individuals experience different types of stress at a workplace and it causes different types of issues for employees" (Stranks, 2005; p. 12). Moreover, individuals are affected differently by the various types of stressors (Stranks, 2005; Ekundayo, 2014; Haque and Aston, 2016). We favour Stranks' (2005) which features individual, organisational and environmental stressors and their effects on commitment.

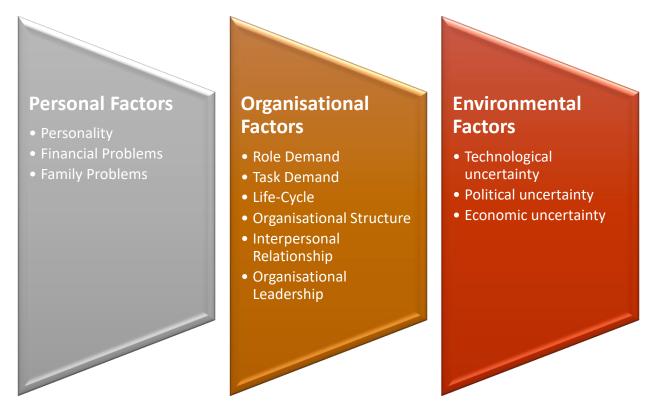


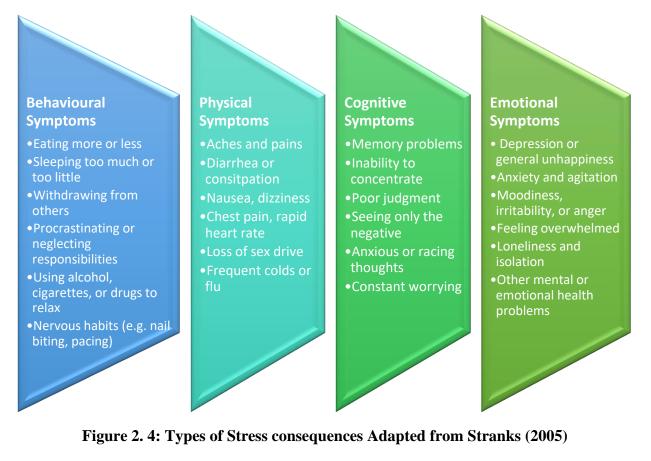
Figure 2. 3: Types of stressors Adapted from Stranks (2005)

Ekundayo (2014) confirmed that the causes and the consequences of stress differ from person to person, organisation to organisation and industry to industry. We agree. But there is little or no

evidence regarding the variation in causes and consequences for employees within the HE sectors specifically.

In other words, it is possible that there are different *combinations* for different employees, such as: high physiological symptoms alongside low behavioural and cognitive symptoms, or low physiological but high behavioural and cognitive symptoms, or any of the three with one being higher or lower in contrast to the other two. It is also possible that some individuals may demonstrate all three types of symptoms at either a high or low level. Indeed, there could be any combination for any individual in the work setting, yet to be measured within one analytical framework to include gender, faculty and country differences.

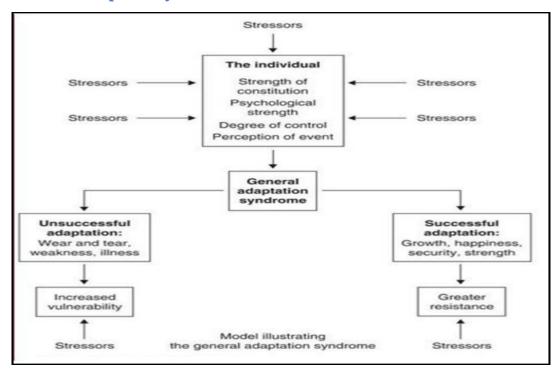
Recently Haque and Aston (2016) and Haque *et al.*, (2016) investigated variation in the consequences of stress within the IT sectors of Pakistan, Canada and the United Kingdom, using only quantitative methods. We favour pragmatic use of qualitative and quantitative techniques insofar as they address the variables of interest.



Interestingly, Stranks showed that instead of considering the emotional and cognitive as two separate types of symptoms, they can be viewed as a single effect, namely: "psychological symptoms". Indeed, the literature on the consequences of stress also considers them as a single effect. However, in this study, emotional and cognitive effects are treated as two, separate attributes.

Haque, Aston and Kozlovski (2016) found that operational level employees mostly experience personal stressors, while managerial level employees are affected by organisational stressors. In addition, a developing country's workforce experiences higher stress than a developed country's workforce (Haque and Aston, 2016; Haque *et al.*, 2016). However, these studies did not identify specific symptoms, gender differences nor different levels of management, or types of economies. Thus, there is a need to investigate the variation in the effects of the stressors on employees with regard to contrasting genders, especially in the education sector and beyond these, the impact of stressors on organisational commitment across its different dimensions.

There is no available literature on the causes and effects of stress in relation to organisational commitment within the education sector of contrasting economies, either qualitative or quantitative. The next step is to evaluate various models of stress to pinpoint the variables of interest.



# 2.5 "General Adaption Syndrome" - the GAS Model of Stress

Figure 2. 5: 'General Adaptation Syndrome' (Stranks, 2005)

In 1936, Hans Seyle proposed a celebrated model of stress known as the GAS model (Smeltzer and Bare, 2004). The model argued that persistent exposure to stress causes different types of diseases including ageing (ibid). Oyetimein (2009) and Ekundayo (2014) are based on the GAS model. Seyle included three stages: alarm, resistance and exhaustion (Seyle, 1976; Smelzter and Bare, 2004; Stanks, 2006; Haque and Aston, 2016). Nevertheless, although it is comprehensive, this basic outline lacks necessary detail and understanding of the stress phenomenon. It remains useful in that it includes psychological mechanisms and interlinked attributes demonstrated by individuals when experiencing stress. It also highlights why stress is damaging to a person's wellbeing, physical and psychological. It fails, however, to predict chronic stress complications that result from it (Alice, 2012). Additionally, individuals view, act and react differently to stressful situations and, thus, this model overlooks the notion of an individual's ability to see and adapt differently to different types of stressor (Alice, 2012).

Stranks (2005) argued the GAS does allow for the way that, in the face of stressful situations, people react differently, adding that a person's particulat reaction may enable them to handle the

stressful situation efficiently or otherwise, with unsuccessful adaption resulting in serious illness. Conversely, individuals who experience personal growth and greater happiness would be more successful in a stressful situation (ibid). For Stranks (2006) adequate strategies for coping with stress, including self-awareness and other personal resources are useful in surviving stressful situations (Haque and Aston, 2016).

The GAS model remains a constructive foundation for the development of interactional and transactional theories that have followed, offering a starting point for exploring the impact of stress on the dimensions of organisational commitment:

- affective commitment (AC)
- normative commitment (NC)
- continuance commitment (CC)

From Stranks' (2006) development of the GAS model, a less basic understanding of stress can be developed. However, we must consider also *interactional* and *transactional* theories and models of stress.

# 2.6 Interactional and Transactional Theories of Stress

### **2.6.1 Interactional theories**

According to Stranks (2005), interactional theories of stress focus on individuals' interactions with their respective environment. Interestingly, this school of thought treats stress as an emergent phenomenon, occurring through interaction between a person and their environment (Cox and Griffiths, 1995; Stranks, 2005; Haque and Aston; 2016). Lewin (1951) argued that the relationship between individual attributes and environmental attributes is what matters (Mark and Smith, 2008; Haque and Aston, 2016).

## 2.6.1.1 Person-Environment Fit Model

In 1982, French, Caplan and Van Harrison proposed a "P-E Fit Model", according to which stress occurs when there isn't a perfect "fit" between a person and the environment (Jovanovic *et al.*, 2005). Well-being is compromised. This theory distinctinguishes subjective perceptions and objective reality and but also person variables (P) and environmental variables (E). Thus, the lack

in the "fit" situation can occur in *four* distinct ways when P x E interact (2 into 2). Each situation could be challenging for the workers, as stress will be incurred (Jovanovic *et al.*, 2006). Hence, a poor P-E fit creates stress in both an objective and subjective manner. Mark and Smith (2008) agree that the "P-E Fit Model" promises good health when individuals and their work environment matches. It follows that to remain in this healthy state, it is essential that employees abilities, skills and attitudes develop in step with environmental changes, for example, changing job attributes which call for new skills (Mark and Smith, 2011). The 'match' needs maintaining to avoid emergent misfits, objective and subjective manner (Sonnentag and Frese, 2003; Mark and Smith, 2008). However, Bunnk *et al.*, (1998), argued that in this same model allows for a "defense mechanism" operating to minimize subjective misfits, particularly through reappraisals and denial.

It is important, then, not to assume that either person and environment is unchanging. In practice, both changes. The model is difficult to test in that it probably demands longitudinal data tracking changes in persons and in the environment and in the interactions, and in the outcomes. It should not be surprising that there is limited empirical testing of this model (Buunk *et al.*, 1998; Mark and Smith, 2008). Furthermore, Haque and Aston (2016) criticise the P-E-Fit model for treating stress as external attribute while stress could emerge out of the internal attributes of the person, notably their thought-processes. This matter of the changing forms of reasoning which actors employ in relation to changing circumstances and in relation to the reasoning used by other actors is something we return to in our discussion of G-GCT.

## 2.6.1.2 The Job Characteristics Model

The Job Characteristics Model is interactional theory, here developed by Hackman and Oldham (1980). It concentrates on the attributes of the job including: autonomy, variety, skills, task importance, task identity and response (Hackman and Oldham, 1980; Mark and Smith, 2008) but also recognises psychological states and the re-shaping of knowledge, experience and responsibilities (Cox and Griffiths, 1995; Mark and Smith, 2008). It suggests that a specific mental state is given rise to by job-attributes of a positive or negative nature, affecting absenteeism, satisfaction, motivation (Hackman and Oldham, 1980; Cox and Griffiths, 1995; Mark and Smith, 2008). This model is easier to test because it specifies job characteristics. Kompier (2003) argued that there is sufficient literature on job attributes (Kompier, 2003; Mark and Smith, 2008), making

Job Diagnostic Surveys possible. Yet it contributes to understanding psychological states in a limited manner (Mark and Smith, 2008).

### 2.6.1.3 The Vitamin Model

Warr (1987) proposed an extension in the form of a "Vitamin Model" (Mark and Smith, 2008). This metaphor has it that specific types of job can affect mental health much as different vitamins do. The Vitamin Model specifies a non-linear relationship between the characteristics of a job and mental health outcomes, including employee well-being. de Jonge and Schaufeli (1998) agree that environmental psychological features like job attributes affect the mental health. And the proposition that the effects are comparable to the non-linear effects that vitamins have on one's physical health has supporters (De Jonge and Schaufeli, 1998). By extending the metaphor we see that impairment results from vitamin deficiencies.

"In general, initially the physical functioning and health improves by the intake of vitamin, but beyond a certain level of intake no further information is observed" (de Jonge and Schaufeli, 1998; p. 388). There is likely possibility of having two different kinds of effect in case of continued intake of vitamins, such as 'constant effect - health neither improves nor [is there a ] noxious effect on [the] physical health of individual being observed', while withdrawal of the 'vitamin' reflects in a curvilinear pattern of decline (Ibid). It was Warr (1987) who argued that "the effects of job characteristics upon mental health parallel the ways in which vitamins act upon the human body. Following this line of reasoning we could refer to Warr's vitamins as work vitamins" (de Jonge and Schaufeli, 1998: 388).

Warr (1987) stated that at the beginning of their employment, employees' mental health is beneficially influenced by job characteristics while deficient job attributes harm their mental health. However, "beyond a certain required level, vitamin intake has no positive effect anymore: a plateau has been reached and the level of mental health remains constant" (Warr, 1987; cited de Jonge and Schaufeli, 1998; p. 389). Changes in job attributes (ie. changes in 'job vitamins') might either develop a constant effect or might harm workers' mental health (Warr, 1987). Note that here the effect is an outcome of job characteristics but also on the constitution (make up) of the worker. Warr (1994) gave some thought to these 'curves': "the curvilinear pattern is likely to vary across different kinds of mental health outcomes"...."a mid-range plateau, which appears to be less pronounced is expected for job-related well-being and an inverted U-shaped relationship is

postulated. Finally, it seems plausible that the particular shape of a curve depends upon the particular kind of variables being studied. For example, an inverted U-shape pattern is expected in case of job autonomy and job satisfaction, whereas a U-shaped curve is expected in case of job autonomy and emotional exhaustion" (de Jonge and Schaufeli, 1998; p. 389).

What might these 'vitamins' be? Warr (1987, 1994) "distinguishes five components of mental health: (1) affective well-being; (2) competence; (3) autonomy; (4) aspiration; (5) integrated functioning". A plethora of psychological research focused on 'affective well-being' as an indicator of job-related mental health. Russell (1980) and Watson and Tellegen (1985) followed a similar framework which postulates affective well-being formed of 'pleasure' and 'arousal' as two orthogonal dimensions, with 'anxious-comfortable' and 'depressed-actively pleased' as two separate axes.

Within the occupational settings, "the first axis (i.e. discontented-contented) has mostly been operationalized through measures of job satisfaction, but measures of job attachment and organizational commitment have been used as well" (Warr, 1987; cited de Jonge and Schaufeli, 1998; p. 390). "The second axis (i.e. anxious-comfortable) is usually tapped through measures of job-related anxiety, job-related tension, and job-related strain. Finally, the third axis (i.e. depressed-actively pleased) is assessed by such measures as occupational burnout, job- related depression, job boredom, and fatigue" (Warr, 1987; cited de Jonge and Schaufeli, 1998; p. 390). This group of theories is notable for their functionalist assumptions in which stress is a dysfunctional outcome of dysfunctional components.

The proposition that some job attributes have "constant effects" on individuals by working linearly with an enhanced "dose" only to a certain level, after which there is no constructive or deductive effect (Buunk *et al.*, 1998). That is such 'vitamins' are not poisonous even at high doses, rather like vitamin C. Task significance, security and salary are some of the suggested 'vitamins' (Buunk *et al.*, 1998). On the other hand, van Veldhoven *et al.*, (2002) argued that when there is a moderate level of stress, an "additional decrement" or curvilinear effect might even be experienced productively by some.

But what of the make-up of each individual? The effects of stress could vary with the ability of a person to cope, specific to their social support, the task feedback they receive, the skill, skill utilisation, variety, autonomy, and intensity of job demands (van Veldhoven *et al.*, 2002; Mark

and Smith, 2008). In this model, health is affected by job-attributes in three dimensions (Buunk *et al.*, 1998), "depressed-pleased", "anxious-comfortable" and "discontent-content" (Buunk *et al.*, 1998; Mark and Smith, 2008). This model is an interesting extension to interactional theories of stress (Buunk *et al.*, 1998; Sonnentag and Frese, 2003). Yet van Veldhoven *et al.*, (2005) argued that like the DCS model (below) it lacks supporting empirical evidence.

## 2.6.1.4 Demand Control Model

In 1979, the Demands-Control Model was conceived by Karasek (Kompier, 2003). It has proved highly influential (Mark and Smith, 2008). It began by treating job demands and job control as psychological attributes of a job (Mark and Smith, 2008). Karasek (1979) referred to job control as "latitude" formed of skill discretion (likely through competencies and learnt skills) and decision authority (control over a situation while working in the organisation) (Karasek, 1979; Jovanovic *et al.*, 2006; Mark and Smith, 2011; Haque and Aston, 2016). Although the model considers psychological features, it also encompasses the employee's interaction with the operating environment (Cox and Griffiths, 1995).

| Job Control  | Low Job<br>Demands | High Job<br>Demands |
|--------------|--------------------|---------------------|
| Low Control  | Passive<br>Job     | High-<br>strain Job |
| High Control | Low-<br>strain Job | Active<br>Job       |

#### Figure 2. 6: The Job-demands and Job-control Model (Karasek, 1979)

Interestingly, the 'JDC' model (Karasek, 1979), above, found that mortality, cardiovascular disease, fatigue and depression are likely when there is a low level of job control and high level of demand. However even in such challenging situations, some individuals demonstrate a *lower* level of illness (Karasek 1979; Cox and Griffiths, 1995). High strain is predicted by Karasek (1979),

when low control and high demand interact in an unfortunate way, and where increasing worker control would protect against adverse effects. Johnson and Hall (1988) extended the model by including social support, thus forming the DCS model in which, in situations of high demand, social support would work as a buffer (Karasek and Theorell, 1990; Lim 1996; Cooper, Dewe, and O'Driscoll, 2001; Mark and Smith, 2008). Van der Doef and Maes (1999) argued that variations in support, demands and controls explain much of the variance in health outcomes.

Warr (1990) argued that demands and controls are affected interactively by support, in an additive fashion. However, although the extension of social support is a valuable conceptual addition, the model is rather limited int its consideration of job-attributes and, therefore, might not explain the nature of the modern workplace comprehensively, where the environment is dynamic and many varying stressors are present. At the macro-level, the predictive validity of the model is good, but it does not consider the vulnerability of individuals to stressors (Perrewe and Zellars, 1999; Mark and Smith, 2008; Haque and Aston, 2016). The model does not offer a rational explanation for two individuals experiencing the same level of work demand but very different health and behavioural outcomes (Perrewe and Zellars, 1999). (For further details, *See* Appendix F.)

| Model                               | Main Concept   | Advantages   | Limitations  | Reference   |
|-------------------------------------|--|--|--|---|
| Person-<br>Environment<br>fit model | Stress incurs<br>in the absence<br>of fit or<br>mismatch<br>between<br>person and<br>environment.                                    | <ul> <li>Introduces two major distinctions; (a) subjective perceptions and objective reality, and (b) personal and environmental variables.</li> <li>Scenario based analysis to find explain stress.</li> </ul>  | <ul> <li>Unrealistic assumption that interaction between person and environment is static and stable.</li> <li>Treats stress as only external attributes.</li> <li>Limited empirical evidence to support P-E Fit model.</li> <li>It does not consider job related characteristics (task identity, task response, task importance, autonomy, etc).</li> </ul>                                       | (French,<br>Caplan, and<br>Van<br>Harrison,<br>1982;<br>Jovanovic,<br><i>et al.</i> , 2006;<br>Mark and<br>Smith, 2008) |
| The Job<br>Characteristics<br>model | Job<br>characteristics<br>affect mental<br>state of<br>individual<br>leading to<br>show<br>behavioural<br>and cognitive<br>symptoms. | <ul> <li>Considers job characteristic as significant feature to explore stress.</li> <li>Treats psychological stress resulting from job related attributes leading to explain cognitive and behavioural symptoms.</li> <li>Testing this model is practically viable.</li> <li>Job characteristics are supported by vast empirical literature.</li> </ul> | <ul> <li>Stress phenomenon is not comprehensively elaborated.</li> <li>Does not predict the complications of chronic stress resulting from causes of stress.</li> <li>Individual's ability of viewing and reacting to different types of stressors are not considered.</li> <li>More emphasis on the psychological state while limited insight is given about core job characteristics.</li> </ul> | (Hackman<br>and Oldman,<br>1980; Cox<br>and<br>Griffiths,<br>1995; Mark<br>and Smith,<br>2008)                          |

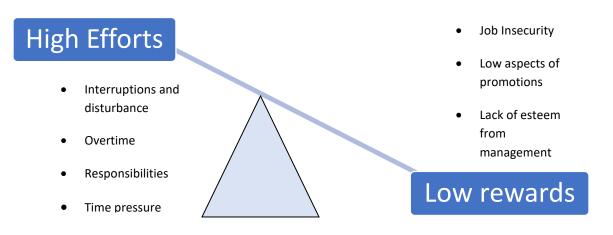
# **Table 2. 1: Interactional Theories of Stress**

| The Vitamin<br>model    | Only specific<br>types of job<br>characteristics<br>affect the<br>mental health<br>of employees. | <ul> <li>Treats job characteristics to have "constant effect", reflecting individual's ability to cope with it.</li> <li>Addition of three dimensions, 'discontent-content', 'depressed-pleased', and 'anxious-comfortable'.</li> </ul> | <ul> <li>The model has inconsistent and mixed results.</li> <li>Does not have empirical evidence to support findings.</li> </ul>  | (Warr, 1987;<br>Van<br>Veldhoven<br><i>et al.</i> , 2002;<br>Mark and<br>Smith, 2008)       |
|-------------------------|--|---|---|---|
| Demand<br>Control model | Job demand<br>and job<br>control are<br>structural<br>psychological<br>features.                 | <ul> <li>Considers psychological attributes while maintaining focus on structural attributes.</li> <li>Includes a new dimension "social support" working as a buffer in stressful situation.</li> </ul>                                 | <ul> <li>Despite having social support, the considered job features are limited hence fail to explain multistressors impact in dynamic environment.</li> <li>Does not give rational explanation regarding different health and behavioural outcomes demonstrated by two individuals experiencing stress from same job attributes.</li> <li>Complexity of stress model is not clearly explained.</li> <li>Environment's subjective perception is ignored.</li> </ul> | (Karasek,<br>1979;<br>Jovanovic <i>et</i><br><i>al.</i> , 2006;<br>Mark and<br>Smith, 2011) |

#### **2.6.2 Transactional Theories**

Another school of thought focuses on 'transactions'. Cox and Griffiths (1995) distinguish interactional and transactional models of stress (Mark and Smith, 2008). Interactional models mainly consider *structural* attributes, reflecting types of stressors leading to physiological rather than psychological effect (Mark and Smith, 2008). Transactional models focus on the cognitive aspects and dynamic links between individuals and environments, focussing on emotional and cognitive process (Cox *et al.*, 2000; Mark and Smith, 2008; Haque and Aston, 2016); subjective understandings of the environment. They consider 'locus of control', personality, appraisal, coping , features which vary individually (Cox *et al.*, 2000), introduced below.

### 2.6.2.1 The Effort-Reward Imbalance Model



#### Figure 2. 7: Siegrist's Effort-and-Reward Model (Söderberg, 2014)

Although Siegrist's (1996) Effort-Reward Imbalance (ERI) Model examines workplace stress by focusing on cardiovascular disease it is both similar to the DCS model (Mark and Smith, 2008) and places subjective perception of the environment at the centre. Internal process explications and the role of individual differences were developed further by Folkman and Lazarus (1980) and Cox (1987). Interestingly, these two models both predate Siegrist. However, "reciprocity" is a key shared concept based on the notion that mismatches between efforts-and-rewards cause stressful experiences (Peter and Siegrist, 1999). Additionally, security, career opportunities, self-esteem

and money feature as "rewards" (Peter and Seigrist, 1999; Mark and Smith, 2008). Extrinsic efforts or pressures, including workload appear similar to the DCS model's 'job demands', while intrinsic effort is derived from personal motivation, subject to the rationality of goals (Kompier, 2003).

Siegrist *et al.*, (1990) and Bosma *et al.*, (1998) supported the ERI model by indicating the situation of low reward in return for high effort is likely to escalate the risk of heart disease (Mark and Smith, 2008). Additionally, Van Vegchel *et al.*, (2002) showed that exhaustion and psychosomatic complaints are affected significantly by rewards, particularly when considering job security and self-esteem (Cox *et al.*, 2000; Mark and Smith, 2008). Nevertheless, ERI provides a new dimension to the DCS model with predictive validity, but the dimension of intrinsic effort is explored only in a limited manner through individual differences. The inability of the model to suggest a mechanism through which stress perception is mediated by individual differences is another shortcoming. Kompier (2003) argued that, much like the DCS model, this model does not amount to a comprehense new theory. However, the DCS and ERI model, especially in combination, are effective in encompassing variations in physical and emotional health outcomes (de Jonge *et al.*, 2000).

## 2.6.2.2 The Cognitive Theory of Psychological Stress and Coping

This theory proposed by Lazarus and Folkman (1980) is a "Cognitive-Relational Approach" and is one of the most influential transactional theories. It considers individuals and their environments as dynamic in which stress is an internal attribute emerging from an emotional and psychological state, as stressful transactions take place (Folkman *et al.*, 1986). Coping and appraisal are fundamental (Cox et al., 2000). Primary appraisal is critical to subjective evaluation (Folkman et al., 1986 cited Perrewe and Zellars, 1999) and are individual-specific (Park and Folkman, 1997). Events are given meaning according to individual beliefs (Park and Folkman, 1997; cited Mark and Smith, 2008).

Park and Folkman (1997) refer to "situational meaning" which allow for secondary appraisals when a situation is assessed as potentially stressful (Mark and Smith, 2008; Park and Folkman, 1997), for example through self-blaming. Coping strategies associated with personal resources, personality and previous experiences are included (Folkman and Lazarus, 1980), as are emotion-focused and problem-focused coping responses (Mark and Smith, 2008). Here emotions and rationality are treated as separate, which raises the question as to whether or not emotions are

rational. Solomon (2002) argues to the contrary that emotions are dynamic process emerging from interactions with the situation and are *intrinsic* to rational choices. However, Winter (2015) persists with the argument that decision-making entails separate mechanisms (a) the intellectual and rational mechanism and (b) the impulsive and emotional mechanism. Many have assumed that the impulsive-emotional mechanism drives poor choices and that the intellectual mechanism yields correct logical choices (Winter, 2015). However, this description is not just simplistic but incorrect. Winter (2015) argued that intellectual and emotional mechanism operate together, sustain each other in practice. Winter (2015) writes, "a study conducted at the University of California at Santa Barbara indicates that in situations in which we are moderately angry our ability to distinguish between relevant and irrelevant claims in disputed issues is sharpened while another study reveals that our inclination to become angered grows in situations in which we can benefit from anger. In other words, "there is logic in emotion and often emotion in logic" (Winter, 2015). Considering the relationship between the 'emotional labourer' (worker) and the person they are interacting with, such as a detained person Smith (2014) argued that "emotional labour can create immediate and long-term good and harm to either party" (400) and that the (rational) emotional skills of workers matter. The argument about whether or not emotions are rational does not alter the argument that both types of responses have something to do with the situation (Folkman and Lazarus, 1980; cited Mark and Smith, 2008).

Based on Folkman and Lazurus' work, Vitaliano *et al.*, (1985) argued that it is important to categorise responses, recognising avoidance, wishful thinking, self-blame and social support-seeking as different features of *problem-focused* coping. Falkum, Olff and Aasland (1997) found that defenses, self-blame, support-seeking, positive thinking and accommodation are features of *action-oriented* coping. While these are valuable theoeretical developments it is difficult to evaluate coping responses empirically, and especially across different organisational and country cultures, owing to the complexity of the model. Culture will reflect in the outlook of individuals towards events, norms, traditions, history, and their sense of value and proportion.

Cox and Ferguson (1991) and Cooper *et al.*, (2001) argue that it is difficult even to define the term "coping" in terms of the specificities of a situation, imputed stable traits, actual behaviour and the processes involved (Mark and Smith, 2008). Another criticism by Briner *et al.*, (2004) is that the anticipated future and history of the individuals are not considered by this model, and therefore that its grasp of appraisal is under-developed.

#### 2.6.2.3 Cox's Transactional Model

To investigate occupational stress from the transactional perspective, Cox has developed and modified his transactional model more than once (Cox 1978; Cox and Mackay, 1981; and Cox et al., 2000). Some features and stages are similar to the model proposed by Folkman and Lazarus, particularly the first two stages, but the essential distinguishing feature is a much greater concentration on individual differences, occupational health and structure (Cox and Ferguson, 1991; Mark and Smith, 2008). According to Cox et al., (2000), stress is a "psychological state" resulting from a mismatch between an ability to cope with a situation and the perception of its demands (Cox et al., 2000). The degree of support from others, the ability to cope, along with the demands experienced from internal and external sources, affect the primary appraisal process (Cox and Ferguson, 1991). Similar to Folkman and Lazarus' model, coping and secondary appraisal are involved in a third stage causing physical and mental changes (Cox et al., 2000). Individuals undergoing stress exhibit psychological changes such as depression, tension, anxiety, mood swings, emotional disturbance (Cox and Ferguson, 1991; Mark and Smith, 2008). Illness appears when, despite having awareness of the stressful problem, individuals are unable to adjust to the situation and remain stuck in a cycle of behaviours (Mark and Smith, 2008). Coping occurs at a fourth stage, while feedback from all the prior stages is a feature of the last stage (Cox et al., 2000).

Inclusion of feedback stage and the clarity of the model make it appealing, however as Cox himself has argued, in practice, the problem-solving process is unlikely to be rational (Cox, 1987) and for Mark and Smith (2008) conscious evaluation might not be easily attained and biases are likely, compounded by insufficient information, limited availability of solutions, past experiences, and feedbacks. Nevertheless, these possibilities go some way towards explaining individual differences in problem-solving both successful and unsuccessful (Mark and Smith, 2008).

Although there is similar supporting evidence to Folkman and Lazarus' model, it lacks conclusive evidence as to the role of mediating and moderating variables (Parkes, 1994; Cooper *et al.*, 2001; Spector, 2003; Mark and Smith, 2008). As is the "cognitive-relational approach", this model is also complex and difficult to operationalise empirically, in contrast to simple models, such as Karasek (1979) and Siegrists (1996).

#### 2.6.2.4 Demand-Skill-Support (DSS) Model

The DSS models is relatively new while incorporating many existing models' key attributes in a new way (Mark and Smith, 2008). It is built on the Karasek and Theorell's (1990) DCS, by van Veldhoven *et al.*, (2005). The aim here is to reduce the number of factors accomodated. The researchers examined four branches of Dutch industry (n=37,000), exploring associations between organisational commitment and work-related attributes, such as: task satisfaction, job security, job-related fatigue affecting health outcomes, relationship quality with supervisors, peers and colleagues, task autonomy, skills-utilization, physical effort, and the amount and pace of work (Mark and Smith, 2008). Findings included the quality of social relationships, skills-utilization, time demands and physical effort. Interestingly, Job security and task autonomy did not play a decisive role in predicting health outcomes.

van Veldhoven *et al.*, (2005) proposed that qualitative and quantitative demands are associated with strain and health outcomes, whilst wellbeing and attitudinal outcomes are more likely to be associated with social support and skills-utilization. The study is a good starting point for researchers interested in exploring occupational stress and job-related features, while paying relatively little attention to individual differences as they affect the stress process (Mark and Smith, 2008). Subjective perceptions of job demands are given a little recognition (Mark and Smith, 2008). Nevertheless, the model developers had stated that their aim had been to include the minimum necessary factors making the model as parsimonious as possible.

This defense has not placated the many critics who criticize this model for failing to treat stress as a transactional process, subjective and relative (Dewe, 1991; Florio, Donnelly, and Zevon, 1998; Perrewe and Zellars, 1999; Frese and Zapf, 1994; Spectorand Fox, 2003; Dewe and Trenberth, 2004). Re-inclusion of psychological processes might be needed, though the question remains as to how complex and comprehensive a model can be and still remain useful. Later we will present a far simpler, two-dimensional theory that claims to be a universal theory of *culture* of which occupational stress, organisational commitment, affective commitment etc. *might* be considered a part. As we will see however, Grid-Group Cultural Theory, while it offers powerful explanations, is *non-predictive*. It is a matter of academic judgement as to whether *simple and powerful explanation* is worth sacrificing in favour of *complex but predictive modelling*. No definitive

answer exists to this dilemma, however this author is very reluctant to abandon whatever powers of prediction models can provide.

### 2.6.2.5 Demand Induced Strain Compensation Model

Indeed, in the meantime de Jonge *et al.*, (2000) and Rydstedt, Devereaux, and Sverke (2007) found that synthesising (ie combining two models into one larger one and therefore more complex model) indeed resulted in *improved forecasting*. They showed that the ERI and DCS models' sub-attributes had cumulative, independent consequences in forecasting physical and psychosomatic health complaints, job satisfaction and emotional exhaustion. Thus, these studies concluded that future researchers should consider combining and refining these two models in studying workplace stress. The Demand Induced Strain Compensation model (DISC) was developed by combining the ERI and DCS models (de Jonge and Dormann, 2003). As stress in service jobs was the prime focus for which this model was formed, it ought to lend itself well to university employment.

Mention of services should be accompanied by the more particularly sociological (rather than psychological) approach to 'strain' in service jobs, Hochschild (1983) commented on the differences between factory labour on the one hand, the hospitable labour of flight attendant and the coercive labour of debt collectors. She writes "the job of flight attendant is no worse and in many better than other service jobs, [but] it makes the worker more vulnerable to the social engineering of her emotional labour and reduces her control over that labour" (Hochschild, 1983, p. 7). "Hochschild shows how commodification of aspects of intimate life require the creation of emotional labour where individuals are paid to demonstrate 'caring qualities'" (cited Smith, 2014). Hochschild (1983) defined emotional labour to include the effort employees make to exhibit particular emotions in the line of duty as a job requirement. Expressive, bodily and cognitive skills are demanded for which employees develop three emotion regulation strategies (Hochschild, 1979). The expression which emotional labourers put across to the person they are serving are goverened by many 'display rules' which are socially originated. In other words, she looks beyond 'methodological individualism' – the idea that we are all pre-social, utility maximising 'agents' out of which 'society' and 'structures' are formed subsequently - to a theory which presumes that individuals are always social actors, in her cases, goverened by the specifically capitalist imperative to *commercialise*. As our respondents work for not-for-profit universities, it is also a moot point as to whether Hochschild's work applies as directly to them as to debt collectors,

nannies, flight attendants, stage actors. However, Hochschild is useful for having pointed out that emotions are part of the labour processes of a vast range of jobs including university tutors and front line reception desk staff and for pointing out that these roles are 'gendered'. The majority of hospitable labour is performed by women, and the majority of coercive emotional labour by men (Hochschild, 1983). She observed that the intersection between class and gender produced variations in how "emotion communicates information" (Hochschild, 1983, p. 17). There are certain undesired situations that an individual encounter at workplace and reacting to them could likely reflect the stress related to job, though Hochschild uses the terms stress, alienation, estrangement and strain interchangeably.

Hospitable 'emotion management' is demanded of women, but Hochschild (1983) argues that gender alone is not a determinant of skill. In general, upper- and middle-class employees work more often with people while lower working-class employees deal with the making of things. However female employees are more likely than males to be dealing with people as their central job requirement (for estimates see the appendices in Hochschild, 1983). Thus, gender and class both enter into commercial and civic use of human feeling in ways that pull in different directions:

Emotion management in the line of duty tends to feature in upper class rather than lower class employment, eg diplomats compared with wall-paper printing operators, while among all emotional labour roles, women are over-represented in the least well paid and respected positions (nannies, shop cashiers, bank clerks). Women are also expected to be more expressive than men (obeying different 'feeling rules' and 'display rules'. Interestingly, Hochschild (1983) stated that, "when the emotional skills that children learn and practice at home move into the marketplace, the emotional labor of women becomes more prominent because men in general have not been trained to make their emotions a resource and are therefore less likely to develop their capacity for managing feeling" (p. 165). Women are expected to do more emotion work than men. A study by Wikler (1976), "comparing male with female university professors found that students expected women professors to be warmer and more supportive than male professors; given these expectations, proportionally more women professors were perceived as cold" (cited Hochschild, 1983, p. 168). This has implications for perceived stress in service jobs: women in customer services are more often vulnerable to anger and frustration, more exposed to rude behaviour than males and it appears that being polite and contented is part of their job description and it is expected of them to remain calm in such situations. A woman's shield against abuse is weaker and the evaluation of female emotional laboueres is different compared to their direct male counterparts in the same jobs. It appears that "gender makes two jobs out of one" (Hochschild, 1983, p. 176). Interestingly, there is higher tolerance for abuse among females than males (Ibid), indicating that the stress of service jobs is higher for the females than males.

Where does this leave ERI and DCS models? The ERI and DCS main assumption is that if demands and resources (of many different types) match, this would result in healthy outcomes (Mark and Smith, 2008). Cognitive resource compensates for cognitive demands and emotional resource compensates for emotional demands, while physical resources should also match physical demands (van Veldhoven *et al.*, 2005). van Vegchel *et al.*, (2005) argued that certain types of affective or emotional outcomes result from the interactions of demands and resources.

Adverse outcomes will emerge when there is a mismatch of any type, such as low cognitive resources for higher cognitive demand roles, low emotional resources for high emotional demand roles and low behavioural skills for high behavioural skill roles. These mismatches can be reduced by personal development, growth and learning so that each demand meets with sufficient resources, and motivation rises. de Jonge and Dormann (2003) called this scenario a "triple match principle" (Mark and Smith, 2008). This model features "demands" and "resources" as found in the earlier mentioned two models and works on the principles of reciprocity and balance (Mark and Smith, 2008). More research using this model is required, specifically exploring the specific types of resources that could best compensate (match) the demands in specific domains, especially complex ones such as higher education. Nevertheless, de Jonge and Dormann (2003) and Van Vegchel *et al.*, (2005) have been of vital importance and represent a positive move towards exploring stress at work.

### 2.6.2.6 The Job-Demand Resource (JD-R) Model

Demerouti *et al.*, (2001) synthesis several approaches by categorizing different psychological attributes into job-demands and job-resources, creating global categories through which to measure impacts on organisational commitment and illness at an individual level (Llorens *et al.*, 2006). Since the present study also aims to explore organisational commitment with stressors, it provides a deeper understanding of the variables of interest. Notably this model recognises social

and physical dimensions of the effort required by a job, and along with efforts, both mental and physical costs.

Mark and Smith (2008) agree that motivation and health impairments are key processes affected by job specificities and available demands and resources (Lloren *et al.*, 2006; Mark and Smith, 2008). For Lloren *et al.*, (2006) health consequences occur through psychological states defined by levels of work engagement and burnout. For instance, the motivation process leads to enhanced organisational commitment if there is high engagement, while the health impairment process might affect the organisational commitment of employees negatively owing to burnout.

Our evaluation is that the JD-R model of Llorens *et al.*, (2006) is an overarching heuristic model which might apply it to all types of occupational settings, irrespective of the specific resources and demands present (Mark and Smith, 2008). The JD-R model is an extension of the DCS model, as it takes in types of resources that could shield (mediate) demands and stress outcomes (Bakker, Demerouti, and Euwema, 2005). There is empirical support for this model. Bakker *et al.*, (2005) confirmed that demands and resources interact in particular proportions leading to proportional variations in cynicism and exhaustion. Llorns *et al.*, (2006) found that between resources and organisational commitment, a mediating role is played by engagement, while between job demands and organisational commitment, a negative relationship is mediated by burnout.

While the JD-R model is supported, the roots of this model lie in the old Karasek (1979) "demandscontrol model", which also recognises work environments (Xanthopoulou *et al.*, 2007). Personal resources such as optimism, organisaional based self-esteem (OBSE), general self-efficacy, resiliency, are added by Xanthopoulou *et al.*, (2007) to the JD-R model. The authors argued that the outcomes and the environment's relationship are mediated and moderated by personal resources (Xanthopoulou *et al.*, 2007). They included optimism, which along with other personal resources had already been found to have an effect on efficacy (Van Yperen and Snijders, 2000; Mäkikangas and Kinnunen, 2003; Pierce and Gardner, 2004).

Although evidence that personal resources offer a moderating role on efficacy was not provided by Xanthopoulou *et al.* (2007), they did provide evidence on the mediating effects of personal resources among exhaustion, work engagement and job resources respectively. Although the role of personal resources has mixed support, we judge that the JD-R model is a significant theoretical development, extending the JDC and DSS models. It also has the potential to be incorporated within the JD-R model.



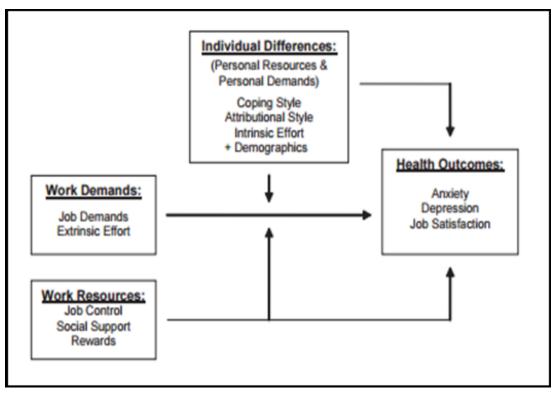


Figure 2. 8: The DRIVE Model (Mark and Smith, 2008)

Mark and Smith (2008) recognised limitations in earlier models of workplace stress (Haque and Aston, 2016; Haque *et al.*, 2016), in this case erring on the side of parsimony. Mark and Smith's DRIVE Model features three principle components: "demands", "resources" and "individual effects", hence D.R.I.VE (Haque and Aston, 2016: Haque *et al.*, 2016). It included the following explanatory variables: demographic variables (age, gender), individual differences and job features predictive of depression, job satisfaction, anxiety, (Mark and Smith, 2008). The following Independent Variables were taken from the DCM model:

- job demands
- social support
- decisions

- authority
- skills

To explain coping, intrinsic and extrinsic types were incorporated into the DRIVE model from the ERI Model (Mark and Smith, 2008). Mark and Smith's model manages to be more comprehensive than previous models yet condense the variables of interest into a smaller number of overarching factors, notwithstanding the empirical complexities of workplace stress. In our judjement the most appealing feature of DRIVE is the inclusion of "perceived job stress", as a mediator between "demands and outcomes" and "resources at a workplace" (Mark and Smith, 2011).

DRIVE was tested by Haque and Aston (2016), in the IT sectors of both Pakistan and the UK, in their investigation of the relationship between occupational stress and organisational commitment. They demonstrated that the model has the validity and can be operationalised in a complex business environments. It was shown that "perceived job stress" is the significant mediator which the authors of the DRIVE model had hoped (Haque *et al.*, 2016).

Nevertheless, although DRIVE is the most recent of many models, but there is still limited evidence regarding its use in cross-cultural studies. It has only been applied quantitatively or qualitatively, but never by both methods, even though we judge that it would be pragmaitic to do so.

Haque and Oino (2017) have since included "social support" as another mediating variable and we have taken the decision to incorporate this in the present study, thus:



Figure 2. 9: New Dimension added to existing DRIVE Model

In order to sustain the comparative method taken here, consideration was given to Hofstede's 'dimensions of culture' and to Grid-Group Cultural Theory (G-GCT), below, which is often treated as a variant of 'institutional theory'. It should be pointed out that institutional theory, and within it G-GCT, are usually applied to single cases and only very occasionally explored through survey methods.

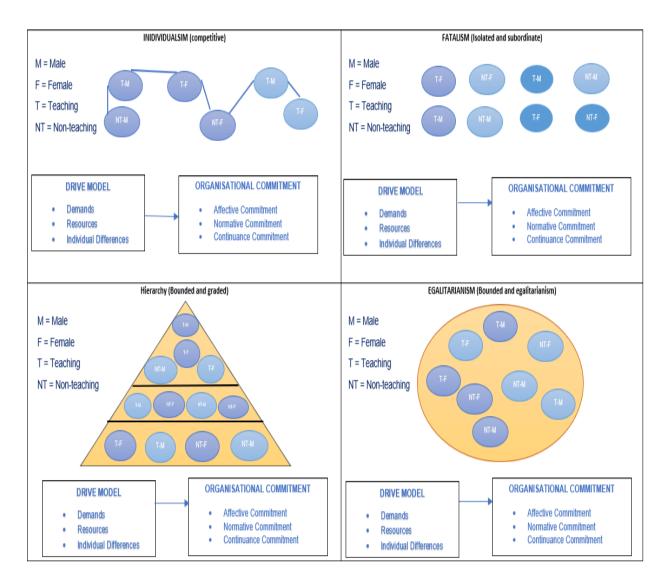


Figure 2. 10: G-GCT used for organizational commitment through the DRIVE Model

The above Figure sets out graphically how the key variables we have discussed so far can be nested inside Grid-Group Cultural Theory. We have done this to preserve the suggestion that our variables have ultimate socio-cultural origins despite, to our knowledge, no previous stress researcher having done so. The meaning of the figure should become clear when we return to G-GCT which we will do shortly, but first a tabulation of all the models we have covered so far which provides an at-a-glance comparison of their different principle features:

| Model   | Main Concept  | Advantages   | Limitations   | Reference   |
|---|---|--|---|---|
| The Effort-<br>Reward<br>Imbalance<br>model                             | Stressful<br>experience is<br>caused by<br>mismatch                               | <ul> <li>Considers subjective perception of<br/>environment as core aspect for stress.</li> <li>Includes reciprocity concept; stress caused<br/>by mismatch between efforts-and-<br/>rewards.</li> </ul> | <ul> <li>Internal process explications are not explored.</li> <li>Works on general intended principles rather than comprehensive design theory.</li> <li>Ineffective unless combined with any other model.</li> </ul> | (Siegrist,<br>1996; Mark<br>and Smith,<br>2008)   |
| The<br>Cognitive<br>Theory of<br>Psychologic<br>al Stress and<br>Coping | Emotional and<br>psychological state<br>forms internal<br>stress.                 | <ul> <li>Treats stress as internal attribute.</li> <li>Introduces appraisal and copping as essential theme of transaction process.</li> <li>Considers individual differences.</li> </ul>                 | <ul> <li>Lacks practical viability in evaluating coping response in contrasting culture.</li> <li>The model is too complex in nature.</li> <li>Lacks rational-processing method explaining stress.</li> </ul>         | (Lazarus and<br>Folkman,<br>1980; Haque<br>and Aston,<br>2016)                                      |
| Cox's<br>transactional<br>model   | Clear structure for<br>investigating stress<br>through individual<br>differences. | <ul> <li>Focuses more on individual differences.</li> <li>Considers internal and external sources.</li> <li>Includes 'feedback' stage.</li> </ul>  | <ul> <li>Excessive focus on the variations in resources, hardiness, and locus of control.</li> <li>Difficult to gain conscious evaluation due to chances of biased and manipulated responses.</li> </ul>              | (Cox <i>et al.</i> ,<br>2000;<br>Cooper <i>et</i><br><i>al.</i> , 2001;<br>Mark and<br>Smith, 2008) |
| Demand-<br>Skill-<br>Support<br>model                                   | Only key<br>organisational<br>factors affecting<br>job creates stress.            | <ul> <li>Focuses on specific occupational factors.</li> <li>It is relatively simple in comparison to previous transactional stress models.</li> </ul>  | <ul> <li>Only test and considers limited job-related features, thus it is not comprehensive.</li> <li>It does not consider individual differences</li> </ul>  | (van<br>Veldhoven<br><i>et al.</i> , 2005)  |

# **Table 2. 2: Transactional Theories of Stress**

| Demand<br>Induced<br>Strain<br>Compensatio<br>n model | Specific emotional<br>outcomes are<br>driven from<br>qualitative<br>dimensions match  | measure the stress through cognitive<br>demands and resources, emotional<br>demands and resources, and physical<br>demands and resourcesenvironment.al.It does not have empirical evidence to support<br>findings in cross-cultural studies.Na   | le Jonge <i>et</i><br>2., 2000;<br>ydstedt <i>et</i><br>2., 2007;<br>Iark and<br>mith, 2008) |
|---|---|--|--|
| The Job-<br>Demand<br>Resource<br>model               | Stress explored in<br>social and physical<br>dimensions.  | job-demand and job-resources for<br>measuring the impact on the<br>organisational commitment.  | Demerouti<br><i>al.</i> , 2001;<br>anthopoulo<br><i>et al.</i> ,<br>2007)                    |
| The DRIVE<br>model                                    | Stress examined<br>through demand,<br>resource, and<br>individual effects<br>using explanatory<br>variables and<br>perceived job<br>stress. | <ul> <li>the important features of previous models.</li> <li>Simplistic in nature.</li> <li>Contains explanatory variables job-</li> <li>Contains explanatory variables job-</li> <li>Contains explanatory variables iob-</li> <li>Contains explanatory variables iob-</li> <li>Contains explanatory variables iob-</li> </ul> | Mark and<br>mith, 2008;<br>aque and<br>ston, 2016;<br>aque <i>et al.</i> ,<br>016)           |

## 2.7 Perceived Organisational Support

Before joining organisation, employees will have some perceptions regarding organisational support programmes. According to Haque and Yamoah (2014), it is possible for different types of organisational commitment to result from the actual organisational support *or* from these perceptions. Eisenberger, Huntington, Huthinson and Sowa (1986), formed the "Organisational Support Theory" (OST) suggesting that firms demonstrate that they value and care about employees by meeting their socio-emotional needs. They do so by offering a range of workplace benefits (Haque and Yamoah, 2014). Employees sense this (ibid).

POS is a concept used in the psychology and management disciplines (Fuller et al., 2003; Stamper et al., 2003; Aube et al., 2007; Allen et al., 2008), however, it is defined differently in different fields. One of the earliest definitions is by Eisenberger et al., (1986): "perceived organisational support (POS) is a degree of *employees' belief*, [that the organisation is] taking care of their well-being and [that] their contributions [are] being valued...under global beliefs" (p. 504; cited Haque and Yamoah, 2014, emphasis added). On the other hand, Allen et al., (2008) define POS as the degree to which organisations value their employees' contribution and *demonstrate* this by providing organisational support at the workplace. The first definition begins with employee's perceptions while the second stresses objective organisational practices. What is common to both definitions is that individual understandings matter and that however formed, these perceptions are real in their consequences. Althoug there is no unaniminity around whether POS should prioritise perceived or actual organisational support, it is agreed that it will vary from person to person, organisation to organisation, sector to sector and even industry to industry (Haque and Yamoah, 2014). For some employees, the focus of their perception will be their organisation's willingness to provide them with what they need in terms of equipment and other materials for completion of assigned tasks (Haque and Yamoah, 2014). For other employees POS will be intangible, such that the organisation is felt to be willing to provide training which will enhance their future careers. (For details, see Appendix F).

HR practices may shape an employee's attitude and behaviour in a positive way (Colakoglu and Culha, 2010). Rhoades and Eisenberber (2002) found that favourable job conditions, fair treatment, supervisory support, reward and appreciation are linked with POS. Earlier findings of Eisenberger *et al.*, (1986) were that POS has more to do with the personal efforts of the employee rather than organisational provisions. Taking the more 'objective' route, Aselage and Eisenberger (2003) argued that organisation facilitates matter, here as aligned to

organisational goals. For Haque *et al.*, (2015) it is the organisation that aligns organisational and individual goals and organisational goals in such a manner that organisational support programmes are beneficial to employer and employees. Faizan and Zehra (2016) found that although a good quality working life has a significant role in the creation of organisational commitment, *leadership* is more important than support provision, in determining the organisational commitment of employees, at least in the IT sector.

Although 'perceived organisational support' is reckoned a significant variable, its causal connection to organisational commitment, job satisfaction, employee engagement and employee performance is under-researched, and non-existant as far as comparative research in HE is concerned. It is known that employee's effectiveness is linked with organisational commitment and the attainment of organisational and personal objectives. It is also known that there is a relationship between job satisfaction and organisational commitment, where organisational support plays a mediating and moderating role (Rhodes and Eisenberger, 2002; Aube et al., 2007; Riggle *et al.*, 2009). Nevertheless, we need to distinguish a specific type of organisational support, social support, in order to establish its role among other variables.

### 2.8 Social support

For Haque and Oino (2017), social support is an intangible form of organisational support in the shape of moral and emotional support within organisations. It exhibits a significant relationship with job satisfaction, job performance and job stress (House, 1981; Hurlbert, 1991; Park *et al.*, 2004; Sackey and Sanda, 2011; Kumasey *et al.*, 2014; Haque and Oino, 2017). Schwarzer and Leppin (1991) found that in public organisations, the wellbeing and health of employees tends to improve with social support especially when the tasks are repetitive (Sackey and Sanda, 2011). Others have found social support contributes towards a relaxing and comfortable environment for employees by reducing their workplace-related stress and thus works as environmental copeing resource (LaRocco, House and French 1980, House, 1981; Cohen and Wills 1985; Moos and Schaefer 1993; Brotheridge 2001; McGuire, 2007; Sanda and Sackey, 2010; Sackey and Sanda, 2011).

The next step is to consider gender perspective. Sackey and Sanda (2011) found that females use social support programmes more effectively than males in public organisations, using it to deal with anxiety, depression and frustration. Haque and Oino (2017) confirmed this for the logistic sector of different economies. Both studies confirmed that social support has a mediating effect on organisational commitment and job stress. Indeed, social support is

perceived and received by females more constructively than males in public organisations (Sackey and Sanda, 2011) and private organisations (Haque and Oino, 2017). It enables workforces to develop "adaptive responses" to occupational stress (Brannon and Feist, 1992; Sackey and Sanda, 2011; Haque and Oino, 2017). Haque and Oino (2017) confirmed that women demonstrate adaptive responses more frequently than do men, in the IT sectors of Pakistan and Canada. It remains open as to whether results would be similar in higher education, where job descriptions and types of support are likely to be altogether different.

Kumasey *et al.*, (2014) argued that an employee's performance tends to be enhanced as occupational stress declines. Sackey and Sanda (2011) showed that employee's performance increases with social support programmes which are effective in retaining employees and reducing stress (Haque and Oino, 2017). These were quantitative studies.

Haque and Oino (2017) carried out qualitative research in logistics, using a comparative approach to enhance understanding of the variables of interest. Kumasey *et al.*, (2014) found that women are more vulnerable to workplace stress than men, yet Haque, Aston and Kozlovski (2016) found that converse. Note that Kumasey *et al's.*, research was in a developing country, while Haque *et al.* studied both a developed and a developing country, neither including higher education.

Sackey and Sanda (2011) found that workplace stress is present at all layers of management. Kahn and Byosiere (1990) found that at all levels of management, psychological reactions are commonly reported including: depression, anxiety, wellbeing disturbance and health deterioration (cited Sackey and Sanda, 2011). Furthermore, Lim and Teo (1996) and Kumasey *et al.*, (2014) reported that organisational politics is a common type of stressor for females at a workplace, while Kumasey *et al.*, (2014) found that non-managerial employees report lower stress than managerial colleagues. However, Haque and Aston (2016) found the opposite. Similar findings were made by Virk *et al.*, (2001) in healthcare.

Sackey and Sanda (2008) argued that within different layers of management, there is evidence of variation by gender. Women at lower levels have higher POS and use social support more effectively (Sackey and Sanda, 2008) while irrespective of position, females use social support effectively than male counterparts due to women's greater perceeptiveness (Parry and Shapiro, 1986; Sackey and Sanda, 2011; Haque and Oino, 2017). Another investigation (Sackey and Sanda, 2010) revealed that workplace social support leads to enhanced employee performance, engagement, health, commitment and well-being.

However, Kets de Vries *et al.*, (2009) found that the prevailing culture inside an organisation has significant effects on stress levels, adding that it is not necessarily gendered but instead, depends on the actual nature of the work.

This literature is somewhat mixed and not cumulative. It does not enable us to conclude whether higher stress is experienced at particular organisational layers or varies with gender and certainly not for the HE sectors. Previous studies by Haque and Aston (2016); Haque *et al.*, (2016); and Haque and Oino (2017) have compared gender, different seniority levels and economies mostly in IT and it is an open question whether their findings apply to HE. Of these three studies, two are quantitative, the other qualitative. A pragmaitic qual/quant approach might provide us with more.

#### **2.9 Job Satisfaction**

Once more definitions of job satisfactions vary. Colakoglu and Culha (2010) considered job satisfaction (JS) to be an "affective-laden attitude", a complex phenomenon. Ivancevich and Matteson (2002) consider it consists in each individual's attitude and feelings resulting from a perfect match between their perception and their experiences. A simpler definition is offered by Robin and Judge (2009): "an additional variable, inside the organisational setting, used for the assessment of individuals' feelings arising from work and workplace environment" (p. 65), while Locke (1977) treats it as an employee's emotional state resulting from their appraisals or job experience. For Sempane *et al.*, (2002) job satisfaction is an outcome of the job, evaluations and perceptions of employees based on their values, needs and expectations. These affect feelings. If happy about work, then their feelings will amount to job satisfaction. Hence, JS tends rises with employees' positive evaluations. If there is a difficulty with this proposition it is that it is rather tautological.

Job satisfaction (JS) is established as a positive perception and evaluation, but what is its relationship with organisational commitment (OC)? First a definition of OC. Organisational commitment is a positive intent developed by employees towards their organisation which helps to support organisational goals (Haque and Aston, 2016). Affective commitment (AC), normative commitment (NC), and continuance commitment (CC) are three antecedents of organisational commitment (Mowday et al., 1979; Allen and Meyer, 2001; Porter et al., 2005; Haque and Yamoah, 2014; Haque *et al.*, 2015; Haque and Aston, 2016; Haque *et al.*, 2016; Haque and Oino, 2017). The connection between JS and the antecedents of OC in various sectors is as discussed

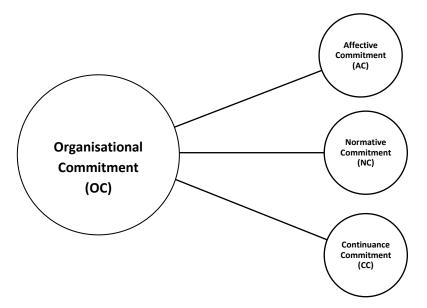
above. (For further details, *see* Appendix F). This means that critical evaluation of OC and its dimensions is essential to our research.

## **2.10 Organisational Commitment (OC)**

Here the dependent variable is discussed at length. Haque and Yamoah (2014) have argued that OC is identified and explained by many researchers from behavioural science disciplines. For Sheldon (1971) OC as that positive intent employees demonstrate by ensuring that organisational goals are accomplished. An earlier definition is based on Becker's "Side-Bet" theory (1960), according to which "when the person and his performed activities are in a steady line, it creates a side-bet, as the interest of a person develops towards the assigned activities, reflecting commitment" (Becker, 1960; p.32). Becker's side-bet theory is heavily criticized by theorists because it presumes that it is an attribute of individuals' behaviour. Instead, OC can be seen as a 'trade' between the worker and the organisations against payment or rewards (Sheldon, 1971; Buchanan, 1974; cited Porter, Steers, and Mowday, 2005). Even this is far from qualifying as a comprehensive theory.

Bateman and Strasser (1984) argue thus, "a worker's desire to be...affiliated with their...organisation [causes them] to...demonstrate efforts to achieve organisational goals and remain loyal" (p. 97). This is tautological. Worse, it is not always the case that efforts to achieve goals represent loyalty to the organisation. Employees may not be loyal to the organisation but faithful to their responsibilities and tasks. Task commitment is far from organisational commitment. Porter *et al.*, (1974) claimed that organisational commitment is commitment shown by individuals towards their organisation reflected in voluntary effort, accepting organisation's norms, while being willingness to stay with the same organisation. Mowday *et al.*, (1979) identified three attributes of organisational commitment (OC), naming them affective commitment (AC), normative commitment (NC) and continuance commitment (CC) (Haque and Yamoah, 2014).

#### 2.10.1 Dimensions of Organisational Commitment



**Figure 2. 11:** 'Antecedents of Organisational Commitment' Adapted from Mowday et al., (1979) Several researchers have confirmed that AC is actual involvement, NC is recognition and CC is the attachment of employees to organisations and that these are distinct dimensions of organisational commitment (Allen and Meyer, 1996; Karrasch, 2003; Bartlett and Kang, 2004; Greenberg, 2005; Turner and Chelladurai, 2005; Boehman, 2006; Canipe, 2006; Haque and Yamoah, 2014). Furthermore, feelings and intent indicate that employees consider organisational goals as their own goals (Haque and Yamoah, 2014). See also Buchanan (1974). Haque and Yamoah (2014) differ slightly in claiming that NC is an obligatory feeling in employees towards an *organisation*; that AC is attached to the *work*, while CC is feeling which inclines employees to stay with the same organisation.

Jans (1989) refined organisational commitment to involve employees developing feelings by valuing organisational goals by perceiving, accepting and internalizing them. An "individual considering the mission and goals of the organisation as his/ her own is reflecting affective commitment." Dedication to an organisational goal reflects normative commitment, while continuance commitment is present in a deep desire to serve an organisation with the intent of continuity (Mowday *et al.*, 1982; Jans 1989; Hunt and Morgan, 1994; Robbins and Coulter, 2003; Haque and Yamoah, 2014).

However,, these are not the only accounts. Continuance commitment can be treated as a 'rational choice' cost-benefit calculation, in which staying with the same organisation is seen as a benefit, while leaving involves costs (Kanter, 1968). explained affective commitment from a value approach perspective. Later, Wiener (1982) explained normative commitment as an

internalized pressure (Wiener, 1982). In the context of the present study: (a) affective commitment is shown by university staff when they willingly accept and consider an institution's goal and values without objections; (b) normative commitment is shown by university staff in their efforts, prompt willingness to ensure that the rules, procedures and standards of the university are adhered to, and (c) university staff report continuance commitment through their intent to work for the same institution for the future.

Interestingly, distinctive types of relationship are demonstrated by the different dimensions of organisational commitment (Angle and Perry, 1981; Mathieu and Zajac, 1990; Steers, 1997; Haque and Yamaoh, 2014):

- In the banking sector, normative commitment is lower among employees, and it is evident that they have a moderately negative job satisfaction, while a positive association is found between job satisfaction and affective and normative commitment (Madi *et al.*, 2012). Furthermore, Hassan *et al.*, (2013) found that bank employees, who have appropriate organisational support, report a higher level of organisational commitment and tend to perform better, irrespective of whether the bank is a public or private institution.
- In the IT sector, it is evident that employee's performance is enhanced by non-financial rewards (Tan and Lau, 2012). Here organisational commitment and job satisfaction have a positive relationship, as both tend to be enhanced when there are non-financial rewards for employees
- In public healthcare, there is high continuance commitment and low affective and normative commitment
- In private healthcare employees have low continuance commitment but high affective and normative commitment associated with organisational support (Halepota and Irani, 2010). Additionally, organisational support is provided in the form of rewards and recognition, procedural justice, job training (Halepota and Irani, 2010).
- In hospitality job satisfaction tends to increase for all types of organisational commitment, namely: AC, NC and CC, positively associated with POS (Hemdi, 2009).
- In healthcare sector as a whole, while it is clear that POS is linked closely with AC and NC, it is highly and positively associated with CC in the private sector, yet vice versa in the public sector

It is clear, then, that sector differences exist which suggests institutional causation. However, findings for education are inconsistent:

- Steers (1977) found that commitment and attendance have a positive connection in the education sector, whereas Mathieu and Zajac (1990) found that actual performance has an insignificant or little association with commitment in the education sector. Yet Ryes and Pounder (1993) found that teachers who value organisational objectives, demonstrate a high level of organisational commitment, suggesting that that normative commitment prevails in the education sector. Malik *et al.* (2010) found that teachers in the public sector show higher continuance commitment, and that this was positively associated with job satisfaction. They also found a strong positive relationship between organisational commitment and job satisfaction. Thus, in the education sector, AC, NC and CC are evident
- In sports equipment organisations Khatibi *et al.*, (2009) found that organisational commitment is likely to be high among employees who have good health. Hence, it reflects that those employees who are free from different types of destructive stress demonstrate high organisational commitment and tend to perform better.
- POS with AC, NC and CC is evident in the various sectors (for further details, *see* Appendix F).

#### 2.10.1.2 Dimensions of Organisational Commitment and Occupational Stress

There is a wide range of managerial literature indicating the relationship between organisational commitment and occupational stress. Different stressors are associated with psychological and organisational outcomes (Cicei, 2012) and organisational commitment is a predictor of employee's withdrawal (Glazer and Kruse, 2008), the main reasons for low organisational commitment being anxiety and depression. The intentions to stay or leave is largely predicted by organisational commitment (Cicei, 2012). Fairbrother and Warn (2003) and Cicei (2012) found that occupational stress and its effects are common at the workplace in almost all types of professions. Moreover, job stress leads to the development of negative physical and emotional responses that affect mindsets, performance and commitment (NIOSE, 1999; Cicei, 2012; Haque and Aston, 2016).

Several studies confirm that occupational stress decreases work efficiency and overall organisational performance (Chraif, 2008; Pitariu and Chraif, 2009; Pitariu *et al.*, 2009; Cicei, 2012; Haque and Aston, 2016).

To summarise, there is a vast scientific literature on occupational stress and the weight of evidence shows that organisational efficiency, commitment, functionality, performance and commitment are all affected detrimentally (Fairbrother and Warn, 2003; Chraif, 2008; Pitariu and Chraif, 2009; Pitariu *et al.*, 2009; Cicei, 2012; Haque and Aston, 2016). In the presence of anxiety, depression, tiredness, lack of motivation, stress affects emotional and psychological states in complex ways (Stranks, 2005; Cicei, 2012; and Haque and Aston, 2016). Stranks (2005) found that stress causes indecisiveness, eating too much or too little, high alcohol consumption, irritability, smoking, errors leading to accidents, poor relationships with other workers. It is clear that the physical health of the workers is affected by workplace stress including dizziness, chronic headaches, aches and muscular pain (Stranks, 2005; Cicei, 2012; Haque and Aston, 2016). Occupational stress affects workers' organisational commitment and job satisfaction (Fairbrother and Warn, 2003; Chraif and Anitei, 2011; Cicei, 2012; Haque and Aston, 2016). The relationship between occupational stress and both job satisfaction and organisational commitment is established.

Social Exchange theory posits a relationship between occupational stress and organisational commitment (Lee, 2007), as does the Casual Model framework (Lambert and Paoline, 2009 and Boyas and Wind, 2009). Wells *et al.*, (2009) found that occupational stress is negatively associated with continuance commitment. Somers (2009) found that while there is a positive relationship between occupational stress and affective commitment and normative commitment, again, there is a *negative* relationship between occupational stress and continuance commitment.

The literature is contradictory on this last point. Yaghoubi *et al.*, (2008) found that occupational stress shows no relationship with organisational commitment in all three dimensions. Yet Cicei (2012) found that occupational stress shows a moderate association with normative commitment, while it negatively affects affective and continuance commitment. Furthermore, the nature of a relationship between the variables of interest is affected by organisational culture (ibid), and this effect seems to be found using different models and frameworks, in different types of organisational settings.

Fields (2002) and Chraif and Stefan (2010) found that of the three types of organisational commitment, affective commitment is most correlated with job-stress. Stress-free employees are likely to have high involvement with assigned tasks and, because of good health, perform better (Fields, 2002; Chraif and Stefan, 2010). Chraif and AniĠei (2011) confirmed that health and peace of mind increase performance while Cicei (2012) found that organisational

commitment depends strongly on occupational stress, as when stress rises, all three antecedents of organisational commitment tend to deteriorate, even beyond the point of control. This supports previous work by Fields (2002), and Chraif and Stefan (2010) in that of the three types of commitment, OC, is the most closely linked to occupational stress.

Absenteeism, anxiety, depression, personal and professional stress, work-family conflicts all affect AC, whilst favourable attendance and organisational citizenship behaviour positively affect AC. Haque and Aston (2016) found that CC is highly affected by occupational stress in the IT sectors of both developed and developing economies. Yet occupational stress a) affects the organisational commitment of a developing country's workforce more than in a developed country b) females have high AC and CC, and c) are less vulnerable to stress than men because of the effective use of organisational support at the workplace (Haque and Aston, 2016; Haque *et al.*, 2016; Haque and Oino, 2019).

Yet despite all of these findings, there is still no conclusive evidence from the education sector of how the varying stressors affect AC, NC and CC of teaching and non-teaching staff in contrasting economies. Chaudhry (2012) identified that there is a positive relationship between stress and job satisfaction at the universities of Pakistan, whereas Danish *et al.*, (2015) argued that organisational commitment and job satisfaction result from *organisational climate*. We know from Khan *et al.*, (2015) that stress affects organisational commitment in Pakistan. Nevertheless, these studies focused on teaching staff only.

Some literature conflicts: Jackson and Rothmann (2006) found a positive relationship between job stress and organisational commitment in the UK education sector, but Khatibi *et al.*, (2009) found the opposite. In private universities, occupational stress has a positive relationship with CC, opportunities of career development, job design, management practices and social stressors. The physical environment, however, has no relationship with stress at a workplace (Velnampy and Aravinthan, 2013). The same study found no relationship between occupational stress, AC and NC, contradicting earlier studies on occupational stress and antecedents of organisational commitment.

Since organisational commitment tends to be affected by occupational stress, employees might benefit from occupational therapy, such tat employee's job-stress is managed efficiently and effectively (Haque and Aston, 2016).

While there are some differences among researchers, overall, we are confident that commitment and stress are linked with strain, perceived job stress, personal resources and, we suspect, with the presence or absence of professional occupational therapists.

### 2.11 Role of the occupational therapist in dealing with stress at work

Scholarly interest in stress and organisational behaviour has intensified since the mid-1980s (Costea and Crump, 1999; Stoica and Buicu, 2010). Stoica (2007) writes that stress management programmes are more prevalent too and professional occupational therapists' function as a bridge between workers and workplace Wisenthal (2004). Occupational therapists and stress management programmes offering counselling, nutrition and wellness advice, work-pressure handling skills, workplace and health safety training and advice on ergonomics and pain management as means to mitigating or avoiding stress (Watson, 2000; CAOT, 2010; Haque and Aston, 2016). Workplace stress is reduced through occupational therapy (Watson, 2000; Stoica, 2007; CAOT, 2010; Stoica and Buicu, 2010; Haque and Aston, 2016; Haque *et al.*, 2016; Haque and Oino, 2017).

From Allen and Meyer (1996) to Haque and Oino (2017) research has shown that employees with good health have a higher level of productivity and performance, demonstrating organisational commitment.

Union representatives, health and safety personnel and insurers can all act as mediators between workers and management, so that the needs of employees and employers are addressed; indeed occupational therapists can play most of these roles (Watson, 2000; CAOT, 2010; Haque and Aston, 2016), as well as a measure of quality assurance (Watson, 2000; CAOT, 2010; Haque and Aston, 2016) (for further details, *see* Appendix F).

#### **2.12 Hofstede Cultural Dimensions**

However not all cultures – within which work takes place - are the same. In cross-cultural studies, Hofstede's cultural dimension provides a framework, depicting members' values and behaviour as affected by their society's culture (Gelade, Dobson, and Auer, 2008). As we will also see there are different ways of defining culture, as something stable (as here) or as something which is itself the source of change (G-GCT).

Hofstede (2011) defines culture as the "mind's collective programming which differentiates the members of one type of category or group from others" (p. 02). Although, it is often viewed as a collective phenomenon, culture can be identified at the collective and individual levels

(Hofstede, 2011). The term culture is not limited to ethnic groups but can also be applied to social classes, generations or genders. In cultural studies of organisations have led to changes in the concept itself (ibid). Perhaps the dominant view remains that culture is something deeprooted, for instance, an employee will acquire much of the organisational culture of the employer s/he joins, which is also a measure of the power of such cultures.

Hofstede's studies are often used to make sense of behavioural variations in people from different countries and therefore cultures (Ning, 2006; Gelade *et al.*, 2008; Afaneh *et al.*, 2014). Nevertheless, the implications of Hofstede's dimensions in terms of organisational commitment between cultures remains under-developed. And what of their practical implications? Gelade *et al.*, (2008) argued that culturally diversified workforces should conform with practices associated with whatever the wider local culture is. Yet this recommendation begs many questions as to whether and how this might be possible, particularly if 'cultures' are seen as stable and even fixed. Indeed, Bartlett and Ghoshal (2000) point out that an international organisation's assets lie partly in its regional *diversity*. From this argument we would argue that if global diversity is an asset, so is diversity within each local workforce.

Reade's argument cuts across this debate (2001) argueing that firm's ability to motivate and engage the diversified workforce is a key determinant of each firm's competitiveness, indeed that in multinational and cross-cultural contexts, the fostering of organisational commitment is a vital aspect of strategy.

Most organisational behaviour studies are Western, so there is inadequate comparative evidence on organisational commitment in any case, although Palich, Hom, and Griffeth (1995); Buchko, Weinzimmer, and Sergeyev (1998); Meyer *et al.*, (2002); and Adolšek and Štebe (2004) do tend to confirm that sources of commitment vary from nation to nation. These studies present do not concentrate particularly on how sources of commitment vary in association with cultural values.

Ning (2006) and Gelade *et al.*, (2008) did indeed research organisational commitment through cultural values, finding that its understanding can aid construction of management systems which recognise different, culturally specific sources of commitment.

One of the Hofstede's cultural dimensions is 'power distance', reflecting the level to which members of a society or organisation agree and expect power to be concentrated at the top (Ning, 2006). Mitic *et al.* (2016) found that high 'power distance' reduces employee's affective

commitment. High power distance affects normative commitment and continuance commitment among private university employees (Afaneh *et al.*, 2014). Ning (2006) found that affective commitment is lower among Chinese compared to Dutch employees and is again reduced by high power distance. However the relationship between each 'cultural dimension' and personal development is not straightforward, however: Schwartz (1999) found that social power at the national level (in Hofstede's terms 'power distance') can have positive consequences, yet has a negative impact at the individual level. In other words, the relationship may have a positive effect at national level, but on the individual level such effect could be negative. This make the relationship rather complex.

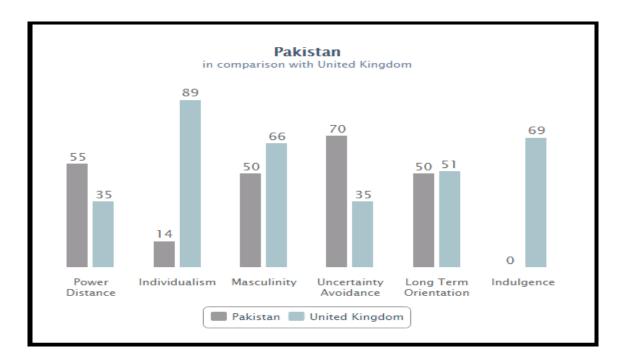
Fiske (2002) even doubts that it makes sense to discuss culture at the individual level, while Steele and Ones (2002) state that *personality traits* constitute meaningful constructs even at the national level.

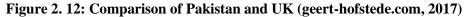
Individualism versus collectivism is another of Hofstede's dimensions, distinguishing individualistic societies and organisations from collectivist societies and organisations (Gelade *et al.*, 2008). A focus on individual achievement, self-interest and initiative reflect individualism, whilst a preference for teamwork, community and the public interest is a feature of collectivism. Although Afaneh *et al.*, (2014) found that individualism affects organisational commitment significantly, the authors do not explain *which* dimension of organisational commitment is affected positively and negatively. Gelade, Dobson and Gilbert (2006) did not find that affective commitment was especially associated with collectivist values. Indeed, Ning (2006) found that the commitment of Chinese and Dutch employees does not vary significantly, despite evidence that Chinese culture is collectivist while Dutch culture is individualistic. It therefore remains unclear how and whether individualism and collectivism affect commitment.

Menwhile Gelade *et al.*, (2008) found that in an individualistic culture 'job characteristics' matter more as it is the job that leads to or erodes satisfaction and that its effect on job is less in a collectivist culture (Gelade *et al.*, 2008).

According to Hofstede (2001), "masculine and feminine are the degree to which differentiation is made between the social gender roles... in masculine societies, men are tough, assertive [with a] primarily focus on material success, while [feminine societies]...exhibit a concern with the quality of life. [In] feminine societies ...both men and women [are viewed] as tender, modest and concerned with the quality of life" (p. 297).

Afaneh *et al.*, (2014) found a positive linkage between masculinity and organisational commitment, but when Ning (2006) compared Chinese and Dutch employees in order to measure the impact of masculinity on organisational commitment, it was found that masculinity affects overall affective commitment *negatively*. Interestingly, in masculine cultures, a higher value is placed on job attributes which reflects in commitment (Gelade *et al.*, 2008). In other words, the application of Hofstede to commitment answers some questions but creates many new ones, and especially, Why?





Again, based on Hofstede Pakistan has a higher level of 'power distance' that the UK (55 against 35 on the same scale). In other words, a preference for 'power distance' is low in the UK, while it is relatively high in Pakistan. Pakistan scores lower in 'individualism' than the UK (14 against 89), thus Pakistan is more collectivist than the UK. Thus, in Pakistan, we find higher long-term and close commitment to collectivities such as groups and organisation than in the UK. Turning to another of Hofstede's dimensions already introduced, Masculinity. When compared to Pakistan, the UK scores *high* (50 against 66).

These comparisons beg the question as to what effects these different cultural preferences might have on our variables of interest, which are explored properly only by cross-cultural comparative studies, of which there are few in our specific field.

## 2.13 Gaps in Literature

The literature available consist in mostly single dimension studies restricted to particular economies and societies and although industry differences have been found (suggesting perhaps that industries have cultures and thefore different worker preferences) we have too few international comparisons. It is the comparative studies that interest us especially, because they are typically more informative and lead to fresh questions, which is the essence of scientific progress. Indeed, the more comparisons the better: different occupational groups, different levels of seniority, gender differences, levels of national development and of course, different cultures. Of course, the inclusion of too many variables in a study of a given sample size prevents researchers from making confident generalisations and in recognition of this we have limited our study to the HE sector, while including as many variables as practical. These trade-offs are, as we would argue, pragmatic.

The role of the occupational therapist is a well-established branch of research in developed economies (Stoica, 2010) and we are also minded to address the lack of evidence concerning the effects of occupational therapy on our variables of interest, specifically in the East, more specifically South Asia compared with the UK. We notice also that the DRIVE model, which is relatively comprehensive, had not been used for our purposes, though it has been applied successfully to the IT sector.

It is now known that gender has effects on the way stress affects organisational commitment, but again, not so conclusively for the HE sector. It is likely that stress, commitment, the stressors themselves and their impacts, vary bt gender, from individual to individual, sector to sector and, given cultural differences, also from country to country. Again, we have little research on the effectiveness of support programmes in terms of gender, faculty and economy/ culture.

Since Hofstede has established that culture varies from the East to the West, we wish to examine how the variables of interest function in different cultures, using the DRIVE model for this novel purpose. It is DRIVE which brings all the variables of interest together, though grouped simply.

We trust that practical interventions will be suggested by our study, contributing towards establishing global standards required of educational institutions in order to sustain human capital through organisational commitment and reduction of stress.

85

There is enough cultural theory and institutional theory (Aldrich, 1994; Suchman, 1995; Peng and Heath, 1996; Dacin, 1997; Lawrence, Winn, and Jennings, 2001; Sherer and Lee 2002; Aten and Howard-Grenville, 2012; Zilber, 2012; Palthe, 2014; Ozeren and Aydin, 2016) to suggest institutional effects on our variables. Indeed Ozeren and Aydin (2016) used institutional theory to compare the treatment of minorities in organisations in Turkey and the United Kingdom (UK), taking a similar comparative approach to ours, by paying attention to systems and supports in the education sector and how these affect organisational commitment.

## **2.14 Hypotheses**

Based on the identified 'gaps' in the literature review, the conceptual framework was designed and the following hypotheses were developed for this study:

**Hoa:** The causes of stress do not vary significantly for the different genders of teaching and non-teaching faculty at UK and Pakistan's public universities.

**Hoa':** The causes of stress vary significantly for the different genders of teaching and nonteaching faculty at UK and Pakistan's public universities.

**Hob:** The effects of stress do not vary significantly for the different genders of teaching and non-teaching faculty at UK and Pakistan's public universities.

**Hob':** The effects of stress vary significantly for the different genders of teaching and nonteaching faculty at UK and Pakistan's public universities.

**Hoc:** There is no significant impact of the role of the occupational therapist, social support programme, personal strain, personal resources and perceived job stress in relation to occupational stress and organisational commitment amongst the different genders of teaching and non-teaching faculty of UK and Pakistan's public universities.

**Hoc':** There is a significant impact of the role of occupational therapist, social support programme, personal strain, personal resources and perceived job stress in relation to occupational stress and organisational commitment amongst the different genders of teaching and non-teaching faculty at UK and Pakistan's public universities.

#### 2.15 Summary

In this chapter, a wide range of literature has been evaluated. From the GAS model to the DRIVE model, it is confirmed that health and wellbeing are vital for organisational effectiveness, though personal resources and the ability to cope with stress varies from person

to person. There is also evidence from the literature to report that no two employees will show the same type of consequences of stress in similar situations, perhaps because of how each read and therefore experiences a given situation. Stress is affected by 'internal' qualities as well as by 'objective' mismatches between demands and resources.

The literature also shows that organisational commitment varies not only by gender but also among the types of employees and industry sectors. Social support and organisational support systems are not drawn on equally by different categories of employees, in all sectors and different economies.

The literature has indicated that a little stress may be favourable. Chronic stress, however, can be destructive for an employee's well-being, health, performance and organisational efficiencies, though the findings from the education sector are inconsistent.

# **CHAPTER THREE: CONCEPTUAL FRAMEWORK**

## **3.1 Introduction**

This conceptual framework is an outcome of our literature review. The independent, dependent and other vital variables in question are identified, separately and clearly identified, thus:

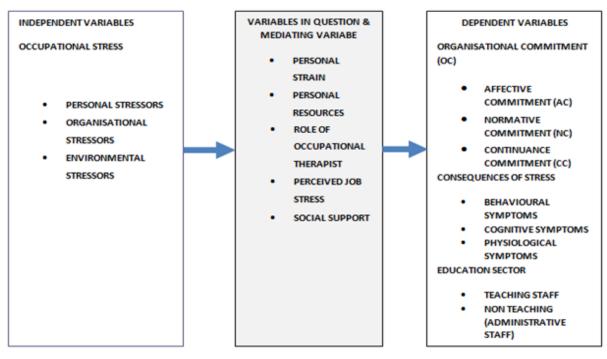


Figure 3.1: The author's framework for the variables of interest

## **3.2 Variables of interest**

In this figure, the 'independent variables' are on the left-hand side. Here 'occupational stress' is the main independent variable. Following Stranks (2005), this study also specifies three types of stressor which cause occupational stress:

- personal stressors (personality, family problems and financial problems)
- organisational stressors (task demand, role demand, life cycle of the organisation, organisational leadership, interpersonal demand and organisational structure)
- environmental stressors (political uncertainty, technological uncertainty and economic uncertainty)

On the right-hand side, 'dependent variables' are listed. The main dependent variable is 'organisational commitment'. The impact of stress, however, is not measured by overall organisational commitment alone but also by its individual dimensions:

- affective commitment
- normative commitment
- continuance commitment

The consequences of occupational stress are treated as dependent variables. We follow Stranks (2005), by considering the effects of occupational stress in the form of:

- cognitive symptoms
- behavioural symptoms
- physiological symptoms

Our supposed inter-linkages supposed between the independent and dependent variables are listed in the middle column of figure 3.1

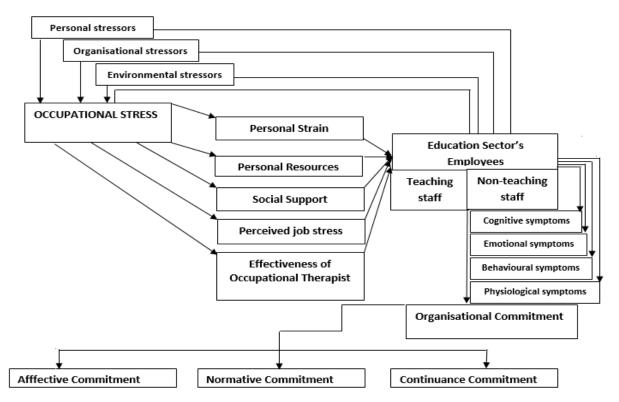


Figure 3. 2: The author's conceptual framework for the present study.

|      | Group   |                |                      |
|------|---|----------------|----------------------|
|      |   | Weak bonds     | Strong bonds between |
|      |   | between people | people               |
| Grid | Many and varied<br>interpersonal<br>differences | FATALISM       | COLLECTIVISM         |
|      | Significant similarity between people           | INDIVIDUALISM  | EGALITARIANISM       |

# 3.3 Grid-Group Cultural (GGC) theory and comparative approach

Figure 3. 3: Source - G-GCT (Wildavsky, 2017).

Grid-Group Cultural (GGC) Theory is included here as a post-script, partly because it has not featured in the stress and commitment literature and partly because it offers a fresh way of looking at all the foregoing studies, by treating them as *cultural phenomena*. We promised to return to G-GCT earlier, but now we are in a position to explain not only that stress responses may be cultural but also that stress theories rely on conflicting rationalities that each have identifiable cultural origins.

To explain: G-GCT was developed by anthropologists Michael Thompson, Stever Rayner, and Mary Douglas with the contributions from the political scientists Richard Ellis, Aaron Wildavsky and others. According to Wildavsky (2017), the primary motive of designing this model is to understand how modern society reacts to its own native rituals and practices. This model can be used in any country or company to understand actions within them, one of which could be variations in stress and commitment levels. The model suggests understanding one's own culture first, then using the same model to understand other cultures. This may assist in avoiding social conflicts once the equal but conflicting reasonableness of other ways of thinking are understood.

| Fatalism   | <b>Collectivism</b>  |
|--|--|
| Also known as: Isolate   | Also known as: Positional, Hierarchical  |
| Style: Apathy, avoidance   | Style: Hierarchy   |
| Nature as: Capricious, uncertain   | Nature as: Robust, to a point  |
| Risk view: Danger, no gain   | Risk view: Managed   |
| Key: Power imbalance   | Key: Obedience   |
| Cultural hero: none  | Cultural hero: Bureaucrat  |
| Leadership: Despotic   | Leadership: Positional   |
| Manage needs? : No   | Manage needs? : No   |
| Manage resources? : No   | Manage resources? : Yes  |
| Individualism<br>Also known as: Markets<br>Style: Competition, Lassez faire,<br>pragamatic materialism<br>Nature as: Benign, robust<br>Risk view: Opportunity<br>Key: Self-regulation<br>Cultural hero: Pioneer<br>Leadership: Meteoric<br>Manage needs? : Yes | Egalitarianism<br>Also known as: Enclave, Communitarian,<br>Sectarianism<br>Style: Equality, commune<br>Nature as: Ephemeral, fragile<br>Risk view: Delicate balance<br>Key: Integrity<br>Cultural hero: Holy person<br>Leadership: Charismatic<br>Manage needs? : Yes<br>Manage resources? : No |

Figure 3. 4: Source - Features of G-GCT (Wildavsky, 2017).

According to Berger (2016), the Grid Group Cultural Theory is formed by two dimensions, *Group* and *Grid*. The Group dimension describes social solidarity (ranging from Weak to Strong), that is, the extent to which actors' lives are constrained by their membership(s) and influenced by the collective. On the right-hand side of Fig. 3.4, actors accept and even welcome group constraints on their behavior by the fact of their belonging to a collectivity. Groups can demand attention and may require full attention and *intense* commitment.

Meanwhile, the Grid (or Social Regulation) dimension recognises variations in the amount of control present, here shown as the vertical axis with high Social Regulation at the top and Weak Social Regulation at the bottom. According to Ripberger, Swedlow, Silva and Jenkins-Smith (2015), by cross-tabulating Grid and Group we can derive four 'ways of thinking', namely *Fatalism*, *Collectivism*, *Individualism* and *Egalitarianism*. Each of these is equally rational, yet they are concerned with different problems, have different solutions to them and are thus mutually conflicting.

Fatalist reasoning (High Grid/ Low Group) has it that actors (at the individual or larger scale) have little obligation to others (there is weak bonding), leading to an apathetic disposition towards big issues (such as climate change) and instead a preoccupation with survival. This

might lead to despotic leadership fixated on the actor's short-term survival. This way of thinking has the lowest 'risk appetite' and we suspect *the highest sensitivity to stress*.

Hierarchical (High Grid/ High Group) prevails when actors are strongly connected to each other while also surrendering willingly to Social Regulation. Here it is reasonable to accept bureaucratic authority in the belief that obedience to rules is the key to minimising deviance (deviance being the main preoccupation). Actors believe they occupy a robust environment. It would follow that they are only stressed moderately, by say, uncertainty.

With equal but again different reasoning Individualistic rationality recognises, accepts and even welcomes differences. With weak Social Solidarity and weak Social Regulation there is no imperative that actors should be similar. This reasoning animates sporting competitors or competitors operating in the same market. Individualist reasoning can be summarised by the principle 'I don't care about you. I will do things my way. Competition will show which of us is right.' This position fosters the highest risk appetite and the view that nature is robust. It follows that a high-risk appetite would also tolerate stressors rather better than Fatalist reasoning does.

Under strong Social Solidarity and weak Social Regulation, Egalitarian reasoning prioritises mutual support and inspires very great, enthusisatic collective voluntary effort. Here the concern is not with (Fatalistic) *Survival*, (Hierarchical) *Obedience* or (Individualistic) *Competition*, but with changing the system so that everybody benefits, often with enormous sacrifice made in pursuit of the greater good.

It is an important feature of G-GCT that because each of these equally reasonable disposition conflict with each other, there is no equilibrium point. It is for this reason that history happens but not in any direction that is easy to forecast. G-GCT is not predictive of which rationality will grow in strength next, but it does explain why a particular rationality will animate a particular type of action:

Each way of thinking is capable of finding a solution to its own view of what the problem is, but it is not capable of solving the different preoccupations of the other ways of thinking. Some degree of cultural continuity is maintained by *institutions* (such as Hierarchical *bureaucracies* and *rule-books*, Egalitarian/ Collectivist *sects*, *social movements* and *religions*, the Fatalistic

'bunker mentality' and Individualistic *competition* in many forms types. An 'institution' can be something as small as a proverb or a rule-of-thumb and as large as a multinational treaty.

According to its proponents, G-GCT fits with what we see: unexpected changes in 'risk seasons' when existing arrangements give way to rapid change, because the previously prevailing way of thinking and acting cannot solve new emerging problems (surprises), which another way of thinking can solve more easily. For eample:

- Individualistic competition causes environmental degradation which Hierarchical and Egalitarian ways of thinking can solve much more easily
- Egalitarian social movements can accomplish great changes. But because it mistrusts rules and regulations it is vulnerable to disorganisation because this form of reasoning is suspicious of Hierarchical leadership. Crises occur when a charismatic leader the only form of lradership acceptable to Egalitarian reasoning dies and no equally charismatic replacement can be found
- Hierarchical reasoning also contains the seeds of its own destruction because by creating more and more rules and regulations, more and more deviants are *created*. In other words, the usefulness of bureaucracy reaches the 'point of diminishing returns' and institutions become cumbersome, unresponsive and 'not fit for purpose'

The question arises as to what G-GCT can contribute to understanding both the two countries which we are comparing and the various theories introduced in the literature review.

According to prevailing research, which is mostly not guided by G-GCT, UK and Pakistan have significantly different cultures. It is accepted widely that there exist differences in 'social environments' which affect individual beliefs and influence individual choices. As we have already identified, Pakistan exhibits collectivist social support, whereas the UK is by comparison more Individualistic in its reasoning.

The central question arising from the Grip-Group Cultural Theory is the relation between feelings, values and actions and different degrees of solidarity and regulation. Even when ideas are institutionalized in rules, institutions are dependent for their life on the availability and practical viability of ideas. The G-GCT relies on the basic assumption that it is because we are social that our diverse feelings, thoughts and actions are possible. While institutions can

sustain thoughts for a period, the failure of institutions to solve blatant problems will eventually awaken opposing forms of reasoning which challenge the status quo.

However, there is a radically different, indeed dominant approach to understanding behaviour represented by 'rational choice theory'. It begins not with collectivities but with individual agents, though an 'agent' can be a person or a firm. The root assumption of rational choice theory is that agents are rational in their 'utility-seeking' behaviour. In this view which is especially popular in economics, and is even the central principle in economics, agents make means-ends calculations (it is in this sense that they are 'rational), and base their choices as to which means have the highest probability of enabling them to attain their preferred ends at least cost to them. If society exists, it is created bottom-up as an outcome of many rational choices. Allingham (2002) argued that, rational choice theory focuses on accumulated social behaviour resulting from the individual actor's choices and that these choices are pre-social. Agents make up their own preferences and making their own decision.

G-GCT and rational choice theories are not just different approaches (Chai, 1997), they are polar opposities. For this reason, it is difficult to accept the claim that "rational choice theory contributes by incorporating cultural findings into the rational calculation of actors" (Tsebelis, 1997; p. 18). This is because rational choice theory makes the assumption that agency exists in each agent and *not* in any larger collectivity. As we have stated, rational choice theory claims that the social is an accumulation of trillions of 'revealed preferences' made by billions of pre-social agents. It is a cliché of rational choice theorists that 'there is no such thing as society'. Thus, according to Tsebelis (1997) "Explanation by culture may be trivial" (p. 16).

However, theories, indeed all theories, rational choice theory included, may be treated as cultural creations (cultural artefacts). The question arises, what form of cultural reasoning do rational choice theorists use and how does it differ from the reasoning that lies behind other theories with which we might compare it?

Grid-Group Cultural Theory is valuable because it supplies an answer to this question. It argues that rational choice theory employs the individualistic rationality or 'thought style'. This way of thinking is only one of four equally rational but conflicting positions, in this case reasoning enabled by 'Low Social Regulation' and 'Low Social Solidarity'.

Because social scientists are cultural subjects, it is not surprising that the questions they pose and the theories they generate reflect these different ways of thinking, different preoccupations and therefore it is unsurprising that theorists disagree.

#### Differential cultural aspects between UK and Pakistan

With regard to Pakistan, elements of both Fatalism and Hierarchy enter into the reasoning behind male domination of women. Although Pakistani culture is 'feminine' in Hofstede's terms, men may see it as their 'duty' to stand in a position of authority (domination) 'above' women. Indeed, women and men may reason that their relative positions of power and powerlessness are constrained by unchangeable differences attributable to their natures. The Hierarchical aspect of such reasoning is quite clear. The Fatalistic component – which some women may share – is that 'there's no point trying to change things as it would be unrealistic/ better instead to conform and thefore survive'.

These beliefs which of course G-GCT treats as cultural rather than natural, are *institutionalised* strongly in Pakistan and *institutionalised* much more weakly in the UK where the same views also used to be prevalent until quite recently. However, institutional difference means that in the UK, after many decades of Egalitarian struggle for equality, different thoughts are institutionalised by the Equality Act of 2010. Additionally, it is clear the imperatives of "individualism" are more prevalent in the United Kingdom in comparison to Pakistan (Chai et al. 2009; Baskerville, 2018). Though institutions do not survive the crises which they cannot solve, the importance of institutions is not to be under-rated. As Mary Douglas wrote, 'institutions think' much as individuals think.

The alternative idea that diverse individuals just happen to have the different preferences which they hold – a proposition common in economics and psychology – struggles to explain:

- why the population of Pakistan, on the average, feels thinks and behaves in some ways *differently* to the way the British population feels, thinks and acts
- why changes in feelings, thoughts and action take place in both countries over time

If individual preferences were the creation of pre-social agents, then it would also be difficult to explain why Fatalistic, Hierarchical, Egalitarian and Individualistic thoughts *do* ocurr in *both* countries. The struggle for an independent Pakistan, separate from India was an Egalitarian, collective struggle much as Britain's defeat of Nazi Germany was a collective Egalitarian struggle.

G-GCT argues that it is through membership of society that the feelings, thoughts and actions of individuals are possible and given the different ways in which the four ways of thinking have played-out in the two countries (and differences in the ways they have been institutionalised), it is unsurprising that at any one moment there are differences between the prevailing thinking in either country. Indeed, there are contrasts (Baskerville, 2018).

Nevertheless Egalitarian "collectivism" is present in both the United Kingdom and Pakistan by degrees in as far as the amicable social relationships exist between individuals and a preference for civility will often be prioritised over the immediate interests of a person at the individual level (Chai et al. 2009; Baskerville, 2018).

Collectivist forms of reasoning (Both Hierarchical and Egalitarian) mean that common objectives are still upheld despite certain disagreements. However, in Pakistan collectivism takes a noticeably more Hierarchical ie. coercive form (Mamadouh, 1999), not so prevalent in the United Kingdom (Baskerville, 2018). Our observation is that the following similarities and distinctions are worth making:

- Hierachical and Egalitarian reasoning share the conviction that Social Solidarity matters but disagree about whether existing Rules are necessary or harmful to the collectivity
- Fatalism and Egalitarianism are doubly contrary to each other disagreeing both about whether or not anybody should have any care for anybody else *and* disagreeing about whether the existing order can be changed (see also Batool and de Visser, 2016)
- Hierarchy and Individualism are also doubly-opposed. To Hierarchical reasoning Individualistic feelings, thoughts and actions are reckless, very risky and show too little regard for the welfare of others. To Individualistic reasoning Hierarchy stands for suffocating rules, preventing the free-play of individual creativity and innovation
- Fatalistic and Individualistic reasoning *share* the thought that 'other people don't matter as much as I do' (Social Solidarity is weak in both cases). But Individual reasoning is antagonised by what appears to it as the undue pessimism, caution and fear associated with Fatalistic reasoning. For its part, Fatalistic reasoning is disturbed by what seems to it to be the very high and avoidable risks associated with Individualism

- Hiearchical anf Fatalistic forms of reasoning both agree that like it or not 'the rules are here to stay', but they disagree as to whether or not others should matter. Hiearchical reasoning has it that others matter. Fatalistic reasoning has it that it is the self that matters above all others

It is worth emphasising again that according to G-GCT, it is these mutual antagonisms which help each way of thinking form its own contrary convictions. In other words, the clarity of our feelings, thoughts and actions takes shape as we are confronted by the very different feelings, thoughts and actions of the other 'thought-styles'. Furthermore, it is the practical failings of any given preferred way of thinking which leads actors to change their minds. G-GCT is also good at explaining why actors can hold contradictory ideas at the same time, known as 'polyrational' or 'clumsy' thinking.

Switching now to the national scale it is worth asking what, given their prevailing differences in thinking, Pakistan and the UK can learn from each other. It follows from G-GCT that the United Kingdom has something to teach Pakistan as far as the promotion of harmonious social relationships is concerned (Batool and de Visser, 2016). To many but not all(!) British eyes, the empowerment of Pakistani women would seem to be imperative. The institutionalised dominance of Islam would be troubling as would the low welfare of minority groups, most notably non-Muslims (Batool and de Visser, 2016). Although we emphasise that recognition of Lesbian-, Gay-, Bisexual and Transgender (LGBT) rights and LGBT inclusion into mainstream society in Britain is *recent*, now that these rights have also become institutionalised, then the development of similar rights in Pakistan would seem a pressing matter.

Meanwhile from the point of view of Pakistan, Britain has much to learn and much to gain from, say, the solidarity of 'three generation households' and the insurance they bring against many misfortunes such as ill-health, sporadic unemployment, the the failure of small- and micro-businesses owned and run by different members of an extended family and against the mental illnesses associated with loneliness.

Or point? All solutions succeed and all solutions fail in different circumstances, but the failings are more obvious to *other ways of thinking* than they are to those who still believe passionately

in the righness and reasonableness of their preferred solutions. Moreover, the practical value of alternative solutions becomes clearer when protagonists are brought into dialogue with each other, no matter how uncomfortable and disturbing this will be.

It is not within the resources of the author to bring 'Pakistan' and 'the UK' into an international dialogue. However, G-GCT enables us to clarify what that dialogue might look like. We can see the reasonableness of efforts to promote Egalitarianism in Pakistan and especially, to confront and prevent the Fatalism prevailing in Pakistan to a considerable extent.

Through participant-observation in both countries we, along with several observers, note that collectivism is preferred over individualism in Pakistan which is not the situation in the United Kingdom (Mamadouh, 1999; Chai et al. 2009; Batool and de Visser, 2016; Guiso, Herrera and Morelli, 2016; Baskerville, 2018). These are mixed blessings. One result is that the ideas and thoughts of individuals are valued greatly along with creativity in the United Kingdom. We observe that the particular interests and passions of individuals form more easily into groups in the UK, that is cohesion without coercion. Meanwhile in Pakistan coercion is relied on to a greater extent to attain cohesion (Guiso et al., 2016). Notice too that as the 'risk environment' differes between the two states, then different types of solution are only reasonable and to be expected.

The value of G-GCT to this thesis is that it sensitises us to cultural differences between the United Kingdom and Pakistan while also showing why one set of institutionalised cultural preferences makes sense in one region and a different set makes sense in another region and in different circumstances. It is to be emphasised that G-GCT does *not* state that any particular way of thinking is better or worse than another, but it does clarify how each form of reasoning is derived culturally (socially), what it pays attention to, the means used (Rules, Collective Struggles, Market Competition, Bunker Mentality) and why culture never sleeps. G-GCT is thus descriptive and explanatory, but as we have stated, G-GCT is not predictive. It states that feelings, thoughts and actions will change despite institutional attempts to preserve existing feelings, thoughts and actions... but G-GCT cannot state in what direction these will move.

Most of the existing literature on culture is descriptive but less explanatory than G-GCT. From reading the majority of authors, we get the impression that 'national cultures' are either fixed or very slow to change and yet Brexit and the election of President Trump are examples of big

shifts in opinion that most commentators not only failed to forsee but also stuggle to explain, but which G-GCT explains easily (as shifts from one rationality to another in the light of specific failings in the status quo). It has also been valuable to present and reflect on the differences and similarities between different authors's observations and this author's personal observations in order to clarify gaps in the research.

G-GCT is valuable in addressing diversity management, because it explains diversity and differences as reasonable and it lays out the dimensions upon which diverse and conflicting opinions and practices exist (Strong and Weak Social Regulation, Strong and Weak Social Solidarity). The fostering of amicable relationships – perhaps the central idea in 'diversity management – shows some similarity with G-GCT (Maleki and Hendriks, 2015) inso far as G-GCT promotes solution-finding through creative disagreements.

The concept of cross-cultural management (Chai, 2018) can be informed by the G-GCT proposition that 'the culture' of the other may be different but just as rational and reasonable as ones own. No 'thought style' is unreasonable but 'cultural gaps' (differences between thought styles) can be identified with precision by the virtue of the G-GCT, for example Fatalism in Pakistan and Individualism in the UK. G-GCT also enables the virtues of each rationality to be made clear; for example, Fatalism can protect actors against taking unnecessary risks and investing in doomed projects.

The scope for inter-cultural understanding is served by GGC Theory: although there are cultural differences at any one time, each of the four rationalities (also known as 'cultural biases', 'thought styles' and 'ways of life') will have been present to varying dgrees and at different times anywhere. The simplicity and efficiency of G-GCT, requiring only two dimensions to account for all variation, is striking. It also explains the reasonable apprehensions which actors will have about each other.Furthermore, the G-GCT also helps in identifying steps and measures to be undertaken for particular improvements to be made, as each rationality has something different yet also valuable to offer in relation to specific issues (Lockhart, 2018). For example, fatalism and egalitarianism address different difficulties. Fataism counters high risk exuberance, elgalitarianism answers existential threats to all and inequality; Hierarchy counters deviance and Individualism any lack of comeetitiveness and creativity. However, each rationality, if carried to extreme has disasterous consequences. Egalitarianism can result in 'communal violence' resulting in many deaths; fatalism results in desperate warordism, Hierarchy in rule-bound bureaucratic paralysis and Individualism in severe environmental

degradation and species loss. The energies of social movements can accomplish much but can run out of control, for example through civil wars and sectarianism.

Additionally, GGCT specifies different understandings of 'interests': Hierarchy, a collective interest in Order; Egalitarianism a collective interest in transformation; Individualism the pluralistic aims and objectives of each individual actor and Fatalism the absolute priority given to the actor's survival by whatever means necessary, including silence and complicity. The two Low Grid positions reason that neither individuals or groups should be constrained or forced according to Rules (Hood, 2016), while the High Grid positions accept Rules willingly (as all to the good) or unwillingly (as something which it is not in the power of the actor to change).

G-GCT is useful in that it can sensitise different actors to the reasonableness of conflicting opinions and increase sensitivities to different forms of risk, by offering different readings of any situation in question. The fostering of amicable and creative disagreement amongst actors thereby leading to the formation of the different kinds of hybrid solutiuons is one of the key promises of Theory. It offers insights into prejudicial differences (shifting 'cultural biases' which we all experience).

Viewed through G-GCT, multiculturalism is an interesting 'hybrid' (aka 'clumsy') solution to differences. It is Fatalistic in that it accepts that religious and other institutionalized differences are long-lasting and will not change even in the medium or long term. It is Hierarchical in that multi-culturalism usually has *rules*...a legal basis in laws which establish and protect, for example religious practices, proscriptions in relation to meat eating and multi-lingualism. It is Egalitarian in that it treats different cultures as having equal value. The only form of reasoning not employed especially is Individualism, as individual differences and 'identities' do not feature as much as collective 'identities' do. Although Fatalism is anything but 'inclusive', when combined with other forms of reasoning both inclusiveness and differences are treated as legitimate and even welcome in the interests of overall 'social cohesion'.

Racism, a potentially violent outcome of Egalitarian-Enclave reasoning ('us and them') is vehemently opposed under multi-culturalism with *the same form of reasoning* transformed into the emancipation and upliftment of people belonging to minority groups, castes and classes respectively (for a discussion see van der Linden, 2016). Although *order* is the first concern of Hierarchical reasoning, by involving three forms of reasoning, multi-culturalism promotes orderliness via egalitarianism cohesiveness and tolerance amongst all groups.

Each form of rationality also brings different models of justice into play. Hieracrchy stresses procedural justice, Egalitarian reasoning, social justice, Individual, the idea that winnings belong to winners, and Fatalism the right of the actor to reasonable self-defence. 'Natural justice', the principle that one should not act with bias, but allow 'fair hearings' is also, we suggest polyrational. Egalitarian equity and fairness are invoked and legal judgements are voided if a fair hearing cannot be demonstrated and this would apply within organisations' HR policies as they apply to, say, disciplinary proceedings and redundancies. The principles of natural justice will be stipulated and encoded in advance in in the form of *set proceedures*, (ie Hierarchically) in order to minimize future risks of miscarriahges of justice and unfair management and distribution of resources.

Thus, *institutions* can be understood and reformed deliberately using the insights of G-GCT to enhance their overall functioning in ways that satisfy the competing demands of the conflicting rationalities. G-GCT asserts that hierarchical has a place in terms of the systematic management of the resources (control, monitoring) accomplishing collective cohesion in what can be a very complex 'division of labour' into specialist activities. More nearly Egalitarian 'semi-autonomous group working' institutionalizes co-operation without any hassles or obstacles, within a wider legal framework which specifies what the group can decisde for itself. Semi-autonomous work groups can experience strong solidarity and mutual support, effectively policing themselves efficiently.

G-GCT makes sense of why semi-autonomous work groups are as hard working and reliable as they are often found to be, even and perhaps because of their presence within a larger hierarchy which thinks differently.

Here is a route to the easing or elimination of the restrictions, the moderation of 'cultural differences' within teams, the removal of the effects of dogmas and inter-cultural wariness and mistrust. Here group solidarity may dissolve the differences within it.

However, it is also observed with the help of Grid-Group Cultural analysis that rituals and traditions are institutional means for sustaining rationalities over long periods inspite of and even because of the galvanizing effects on opinion created by other ways of thinking. The understanding of how different institutions sustain conflicting ways of life (rationalities) can go a long way towards understanding cultural differences at any scale including long-term country differences.

Thus, after identifying the variables of interest, and the dynamics which Grid and Group give rise to, this study uses institutional theory to examine variables in a more detailed manner. Interestingly, there are few examples available of studies that consider the role of institutional process transformation and professional associations (Greenwood, Suddaby and Hinnings, 2002). Ozeren and Aydin (2016) argued that through comparative analysis it is possible to scrutinize and understand the prevailing agendas in different locations. A similar approach is taken in the present study to examine the variables of interest.

However, the relationship between occupational stress and organisational commitment through organisational performance and effectiveness has yet to be evaluated using G-GCT. Yet, through G-GCT we can hypothesise the role of the occupational therapist is likely to differ in contrasting economies because the state of play between the four rationalities is unlikely to be the same in both countries. In general, G-GCT has not been used as a theory of organisational commitment (though collective commitment makes sense in both the Egalitarian and Hierarchical positions). But it has been used to identify similarities and difference within an organisation (Palthe, 2014) and it is easy to see that intriguing differences and similarities exist in the Pakistani and the UK education sectors, despite and because of supposed 'cultural diiferences' between and within the two nations.

Despite higher spending in the UK, the contribution of the UK's education sector to GDP is estimated to be 2.8%, while government spending on it is 11% (UKPS Framework, 2016). On the other hand, the Pakistani government spends less than 2.6%, on education, but the economic contribution of the higher education sector is 3.6% (Ministry of Education Pakistan, 2015). There are similarities and contrasts in the relationship between variables of interest from the two selected countries' education sectors, to be explored.

Geographical aptitude is defined as the natural and operational tendencies in the physical and geographic region (Ramzan, 2015). There is a similarity in the Pakistan and UK's geographical aptitude results, considering the education sector (69.6 against 66.6) (Saeed, 2007; Ramzan, 2015). In both Pakistan and the UK, the minimum duration for a PhD and routes to the award of MPhil in a relevant discipline are equal (three years). Interestingly, the gap in comparative performance regarding gender (males and females) is similar in both Pakistan and the UK (Ramzan, 2015). Moreover, at all levels of education in both countries, similar summative and formative assessment styles are used (Saeed, 2007; Ramazan, 2015).

The UK appears to have developed a more structured (formalized, Hierarchical) approach than Pakistan which Pakistan now seems to be adopting (Ramazan, 2015). Interestingly, the gap between the education systems of the two countries has reduced with recent changes and the adoption of defined minimum standards which could be interpreded as Hierarchical in their reasoning. With new reforms, the structured mentoring of teachers has started in Pakistan, which again is similar to the UK's approach. Despite having institutional similarities, one is an emerging economy (Pakistan), while other is a developed economy (UK). This is a striking point because it suggests that the linkage between economy and culture may be surprisingly weak.

Application of G-GCT is also appropriate to understanding the contextual dynamics of nominally the same phenomena – occupational stress and occupational commitment - in contrasting economies. This study undertakes a similar approach to Chai et al., (2009) by examining these phenomena comparatively. In this way the effects of institutions should be evident while we can also examine the relationship between variables in the context of cultural differences. Having introduced G-GCT and why a comparative approach might be fruitful, we must now describe what might be considered as 'stressors' in the workplace. Bear in mind that sensitivity to risk may vary with each of the rationalities described above, thus actors will vary in their reactions according to how risk averse they are, with Fatalistic reasoning bringing high risk sensitivity and aversion and Individualistic-Competitive reasoning the least sensitivity and aversion to risk.

#### 3.4 Stressors in an organisational setting

The UK Health and Safety Executive produced the "management standard framework" in relation to stress-related health issues. Job role, organisational change, job demands, support functions and control systems are some of the issues affecting health and are part of this strategic framework (HSE, 2007; Mark and Smith, 2008; Haque and Aston, 2016). Interestingly, Several studies identified the above-mentioned issues as "psychological stressors", leading to physical or psychological problems, such as fatigue, gastrointestinal problems, heart disease, depression, musculoskeletal disorders, work-family conflict, absence, burnout, substance misuse, accidents (Cox and Griffiths, 1995; Gianakos, 2002; HSE, 2007; Mark and Smith, 2008 and 2011; Haque and Aston, 2016). These have serious detrimental consequences, such as an increase in absenteeism, higher employee turnover, an increase in the

number of strikes, reduction in productivity and low morale at work (Mark and Smith, 2008 and 2011).

An employee's work-attitude and efficiency are affected by stress. This has been one reason why it has been a central issue for organisational researchers and attracted considerable attention (Jamal, 1990; Kumasey *et al.*, 2014). In addition, it has been supposed that organisational commitment is affected by organisational support and/or stress and, thus, researchers from the organisational behaviour and human resource management disciplines are interested in evaluating variations in organisational commitment attributable to these variables (ibid). However, there is no conclusive evidence measuring variations in causes and consequences from the perspective of gender, faculty and economies.

There is some recent literature on different types of stressors including personal and organisational factors, identified as affecting distinct kinds of employees (Haque and Aston, 2016; Haque, Aston, and Kozlovski, 2016; Haque, Aston, and Kozlovski, 2018). However, these studies were carried out in the IT and Logistic sectors, leaving little conclusive evidence on the education sectors of different economies. What the studies mentioned do show is that there is no variation in the consequences of stress in for either gender at different layers of management, in developed and in developing economies. There is a need to investigate the education sectors to confirm or disconfirm whether causes and consequences vary from sector to sector.

It is known from Haque and Aston (2016) that 'task demand' is the most prominent organisational stressor affecting male employees, while 'personality clashes' (personal factor) affects female employees. This kind of research has an implication that HR and top leaderships could make a difference in the management of varying types of stressors by gender.

Since HR also plays some role in shaping organisational commitment and enhancing individual and collective information, it would be valuable to examine the relationship between the variables of interest in the contrasting economies' educational sectors; specifically, measuring variations in stress in order to understand the impact it has on the effectiveness and performance of employees working in the educational sector. Interestingly, the role of the occupational therapist has been absent from comparative research despite a number of scholars having argued that in order to deal with employee stress, modern-day firms should consider the role of t

2011; Haque and Aston, 2016). This research deficit also applies to the education sector as a whole and particularly to this sector in Pakistan and the UK.

Numerous scholars found that smooth operations and organisational efficiency are affected strongly by 'job stress' in modern professional life (Chang and Lu, 2007; Mark and Smith, 2011; Kumasey *et al.*, 2014; Haque and Aston, 2016; Haque, Aston, and Kozlovski, 2016). Studies have shown that workers' productivity, attitude, behaviour, and performance are negatively affected by stress at the workplace (Ofoegbu and Nwadiani, 2006; Kumasey *et al.*, 2014). However, these studies mentioned above do not examine variation in the causes and consequences. On the other hand, the recent quantitative work by Haque and Aston (2016); Haque, Aston, and Kozlovski (2016) examined different types of stressors affecting the performance, productivity, efficiency and behaviour of employees. They find that causes vary for males and females. Males are more likely to be stressed because of 'organisational factors', while females are negatively affected by 'personal factors' (Haque *et al.*, 2016; Haque and Aston, 2017). Interestingly, the same studies showed that employees' organisational commitment at the operational level is negatively affected by stressors, while the commitment of managerial level employees is positively influenced by stress (ibid).

As these the studies were conducted in the IT sector, the findings cannot be generalized safely to the education sector. teaching and non-teaching staff are different to managers and non-managers; therefore, there is a possibility that causes and consequences may vary among education sector employees. Notice that differences in the prevailing rationalities present in these different samples as described by G-GCT may go some way to explaining the differences in their responses.

Hart and Cooper (2001) argued that not only individual but also collective performances of employees within an organisation are influenced by stress and, thus, for employees, the work-related cost is significantly higher. Several studies have supported the notion that stress negatively affects the performance and efficiency of organisations (Dua, 1994; Brown and Uehara, 2008; Reskin, 2008; Kehsavarz and Mohammadi, 2011; Kumasey *et al.*, 2014; Haque and Aston, 2016). However, whether stressors negatively or positively affect the performance and efficiency of the educational sector's employees, especially from a faculty and gender perspective, is not yet examined in a comparative manner.

Now that the level of stress is known, and a brief overview is provided about stress, particularly stressors in the organisational setting. Its causes and consequences need further exploration. In

particular, there is a need to explore the magnitude of the impact of stressors on the overall and individual dimensions of organisational commitment. According to Ekundayo (2014) stressors lead to dissatisfaction, conflicts, a sense of being overwhelmed, and sensitivity to threats. On the other hand, Haque and Aston (2016) argued that stressors themselves cause stress rather than acting as mediators. Ekundayo (2014) argued that the researchers' and medical practitioners' view is that prolonged stress can result in an ulcer, cardiac disease, and is destructive to the functioning of the human mind and body. Haque and Aston (2016) argued that chronic stress tends to reduce not only an individual's physical functionality but also their reported subjective well-being, overall spirituality and mental abilities. Hence, stressors do not only affect the physical being but also the psychological being of individuals.

Interestingly, the recent study by Mark and Smith (2018) examined the stress of university staff. A high level of stress is evident in university teaching staff in the UK (Mark and Smith, 2018). In addition, high workloads, job insecurity, family conflicts, sleep problems, long working hours and low control (autonomy) are some of the reasons for the high stress of university staff in the UK (ibid). Talking to colleagues (informal social support) is found to be an important way of dealing with stress among university staff in the UK. Another important notion identified by Mark and Smith (2018) is that more highly experienced, university staff deal better with stress. Additionally, communication is considered as a key to resolveing stress at university (ibid). Lastly, the same study found that university staff did not believe that stress in the education sector was higher than in other sectors (ibid).

Ekundayo (2014) argued that anxiety, the frequent occurrence of negative emotions, depression, fear, upset stomachs, disturbed sleep and loss of appetite are common symptoms for stressed individuals. Work, workers and workplace efficiency are reduced because of excessive stress (Ekundayo, 2014). Nevertheless, researchers have used different approaches to assessing occupational stress and it is essential to examine different approaches before considering the one that is best-aligned with the needs of the present study.

### 3.5 Approaches to investigating occupational stress

The engineering metaphor is in widespread usage in research on occupational stress, that is, stress is viewed as a load bearing on an individual's capacity to withstand it, rather like a load placed on a beam which is said to be stressed as a result. Thus, the employee's 'work environment' can present him or her with harmful characteristic (Jovanovic, Lazaridis, and Stefanovic, 2006) to be brought within the capacity of the employee to bear. Several

'environmental factors' are considered as causing ill health, treated as independent variables (Jovanovic *et al.*, 2006). Under this approach the causes of stress are also envisaged as 'structural'.

Under a physiological approach, stress is instead a physiological *response* demonstrated by an individual when encountering a threatening or dangerous situation, reflecting stress as a "dependent variable" (ibid).

The psychological approach is a third alternative which envisages stress as the result of continually changing interactions between individuals and between them and their respective working environment (ibid). Interestingly, under this approach, the main argument is that stress could be measured by taking into account the emotional reactions and cognitive processes underpinning these interactions, inferring challenging person-environment interactions, which then reflect in psychological dimensions interlinked with the stress phenomenon (ibid), ie 'stressors'.

There are criticisms. Firstly, both the engineering and physiological approaches do not appropriately comprehend the stress phenomenon. For instance, noise and disturbance affecting an individual's comfort and working performance under the engineering model is one example. Interestingly, here the adverse effect of noise on working efficiency or performance is not evaluated from the aspect of its frequency or volume but is examined by considering its nature and differeing effects according to the individual (Jovanovic et al., 2006). According to Broadbent (1981), if tiredness and fatigue is already higher among the subjects then it is likely that even normal levels of noise might be very destructive to maintaining task performance. On the other hand, in situations of social gathering or leisure, some individuals might accept a high level of music noise (Broadbent, 1981; Jovanovic et al., 2006). This means that noise is not the main disturbance causing stress but the context, individual capability of handling it and individual preferences. What we have called the 'engineering metaphor' is not a comprehensive explanation, as it does not encompass different subjectivities particularly well. Additionally, Scott and Howard (1970) state that certain specific types of events or situations which prove problematic to some individuals are not severe for others. These variations could be attributed to personal differences in outlook in which case G-GCT may offer at least part of the explanation, with, presumably Fatalism and Hierarchy being associated with the greatest intollerances, while the Egalitarian disposition might embrace loud noise in the context of a concert with a big gathering of like-minded fans. However, at present, there is no conclusive evidence from the literature at hand for how stimuli differ in their effects depending on the

coping ability specificallt of teaching and non-teaching staff by gender, faculty and contrasting economies.

Douglas (1992) argued that the perception of an individual is significant in their assessment of events as stressful or not. With the engineering approach, such behaviours and related perceptions are not explained in an appropriate and detailed manner, except by way of an analogy with the 'strength of a load-bearing beam'. Notably, there is no comprehensive explanation regarding the actual nature of risk and the cultural and group biases that are likely determining factors in the formation of the stress experience.

Jovanovic *et al.*, (2006) argued that stress is not always destructive because a little stress is positively associated with good health and good performance in the organisational settings, known as 'eustress'. Another serious criticism of the 'engineering' metaphor is that it provides no rationale for the above notion: any amount of, say vertical load on a beam creates stress and all we can say is that above a certain load the beam will be damaged. In other words, there is no ideal level, but only a 'safe level'.

Another approach is the "physiological approach" which states that noxious events and unpleasant elements will show specific types of physiological response. The difficulty here is that over time individual responses vary. Interestingly, with this approach, the physiological response are defined very differently to those identified by Selye's (1976) findings (Jovanovic *et al.*, 2006). Additionally, stress responses are not always produced by harmful, physical situations. Specifically, heat was considered by Douglas (1992) as an example of what would not lead to a stressful response of an extreme nature among heat-tollerant individuals.

Lacey (1967) found that there is inconsistency between the various physiological attributes of stress and the idea of a particular set of response symptoms (cited Jovanovic *et al.*, 2006). the relationship between variables mentioned above is far from consistent (ibid). Furthermore, it is difficult to differentiate between physiological changes appearing at times of stress and those that occur when there is no stress immediately present; specifically, stressors and stress may occur in different timeframes (ibid). Nevertheless, there has been a gradual increase in research over time indicating that if a "stress response syndrome" exists, then it is not of a general nature and response patterns vary from one to another to some extent. The major criticism of the engineering and physiological approaches to stress is that they are conceptualized within a "stimulus-response" paradigm, which is relatively simple in nature, proposing a particular set

of responses, while ignoring individual differences along with differentiated underpinning cognitive and perceptual patterns (Cox and Griffiths, 1995; Jovanovic *et al.*, 2006).

Additionally, both engineering and physiological models do not treat individuals as an active medium but as passive vehicles for converting the environment's stimulus attributes into physiological and, more importantly, psychological responses (Cox and Griffiths, 1995; Jovanovic *et al.*, 2006). These earlier models did not take situational factors and interactions between individuals and their different environments into consideration; ignoring the composite or "systems-based approaches" interlinking psychology, behaviour and biology (Cox and Griffiths, 1995; Jovanovic *et al.*, 2006). Furthermore, work-related stress, specifically in the context of the organisation and psychological aspects are ignored by these approaches.

Today, perhaps the most widely conceptualized viewpoint is exploring stress from a "psychological" perspective. After assessing all three approaches, it can be concluded that the psychological approach is more associated with modern and contemporary theories of stress, while physiological and engineering approaches are more linked with earlier theories of stress. Given this advance in the literature, in this study, the psychological perspective is used to investigate the research variables.

### **3.6 Summary**

Stressors at a workplace call for a conceptual framework adequate for investigating the variables of interest. In the present study, the latest "psychological approach", is used. Based on the literature so far, the independent variables identified for this study include: 'occupational stress' with three types of stressors, 'personal stressors', 'organisational stressors' and 'environmental stressors' respectively. These will be evaluated with some assistance from institutional theory. The variables in question are:

- personal strain
- personal resources
- job role stress
- social support
- the role of a professional occupational therapist
- perceived job stress categorized largely according to cultural norms

The dependent variables in this study include

- organisational commitment (AC, NC, and CC)
- the comparative effects within the education sector on teaching and non-teaching staff

# **CHAPTER FOUR: RESEARCH METHODOLOGY**

# **4.1 Introduction**

Research methods and methodology are an integral part of the research process and, therefore, it is essential to develop a comprehensive understanding of them and present a justification for the choices selected.

# 4.2 Research paradigm

According to Easterby-Smith, Thorpe and Jackson (2015), research paradigms consist of alternative patterns of practice that researchers follows in pursuit of their research. The current thesis falls in between two principle research paradigms but, to a larger extent, it falls within what has come to be known as the 'scientific/ positivist paradigm', while, to a lesser extent, using aspects of the 'socio-anthropological paradigm'. This study has both; quantitative methods and qualitative methods combined for investigating variables of interest through abduction. Nevertheless, the greater emphasis, in this study, is placed on the extraction of numerical relationships between research variables accompanied by estimates of their numerical significance.

Mixed methodology is preferred over a single method for pragmatic reasons. Both quantitative and qualitative techniques contribute to abduction. Semi-structured, matrix-based LIKERT scales are used in this study but supported by semi-structured interviews.

# 4. 3 Research Philosophy

One school of thought treats research philosophy and research paradigm as one, while the other treats the two as separate domains. Bandaranayake (2012) explained the distinction between the two terms by stating that a research paradigm is a set of beliefs and research practices, whereas research philosophy involves an over-arching concern with the nature, development and attainment of defensible knowledge.

| Positivism     | <ul> <li>Natural approach and laws followed to measure<br/>and test existing knowledge.</li> <li>Using statistical tools for quantification of<br/>results and measuring relationship between</li> </ul>                         |
|----------------|--|
| Interpretivism | <ul> <li>variables.</li> <li>Statistical analysis not requred for measuring nature of relationship</li> <li>Emphasis on identifying qualitative persepctive by focusing on results interpretation.</li> </ul>                    |
| Realism        | • Triangulation approach development by<br>including information from different sources due<br>to the assumption that there is no single perfect<br>method for investigating research problem.<br>However, it is "factual truth" |
| Pragmatism     | • "Similar to realism, it combines positivist and interpretivist philosophical stance for investigating relationship but it followes "useful truth" rather than "factual truth".   |



Space does not permit full discussion of the philosophy of knowledge (epistemology) however, "realism" and "pragmatism"; are discussed. Interestingly, some authors consider them as the same, while others argue that each has distinctive features (Zwieniecki, 2013). Interestingly, pragmatist philosophy can cover both positivist and interpretivist philosophy, in that it suggests that research methods should be the 'slave of the research question'. In other words, the choice of qualitative or quantitative techniques, or some combination of them is justified if they assist in addressing that research question.

Philosophical Realism is susceptible to different definitions. It has recently been taken to mean the supposition that phenomena are factual truths, hence 'real'. However, there is an earlier stance associated with realism, the proposition that phenomena are real but not observable directly, requiring sophisticated theoeretical apparatus for their discovery. The distinction attributed to Plato is that there are unobservable 'underlying dialectical essences' which produce observable 'surface appearances'. The proverb 'never judge a book by its covers' is a rough approximation for this position. Pragmatists, such as this author are less concerned with establishing factual truths, (essential or otherwise but rather with 'useful truth' (Saunders *et al.*, 2013; Zwieniecki, 2013). This researcher judges that this emphasis on usefulness allows us to embrace positivist and interpretivist approaches (for further discussion *see* Appendix F).

#### 4.3.1 The Distinction between Factual and Useful Truths:

David (2015) stated that in the early 20<sup>th</sup> century Russell and Moore advocated the idea of truth in the form of "the correspondence theory of truth [which] is the view that truth is correspondent to, or with, a fact". This would encompass relational features as part of a truth (to be specified) (David, 2015). This notion has been used by some theorists in terms of relevant relations such as agreement, representation, copying, accordance, correspondence, conformity, signification, picturing, congruence, satisfaction and reference (David, 2015). Alternatively, authors have made reference to facts, situations, properties, sets, tropes, objects, sequences of objects, conditions, and states of affairs (David, 2015). Hence, terminological differences and substantive differences have led in effect to the reformulation of the 'realsism, in a multiplicity of versions, making it difficult to identify this position.

Metaphysical realism is usually linked with the correspondence of theory of truth to determine whether the truth falls into factual category or useful one. According to David (2015), from the lens of truthmaker theory, truth can be viewed liberally in which even "a correspondence account [is] one, but only one, ingredient of its overall account of truth". In other words, there may be pluralism (many competing versions of truth). Aristotle's defined truth as, "to say of what is that it is not, or of what is not that it is, is false, while to say of what is that it is, and of what is not that it is not, is true" (cited Crivelli, 2004). Hence, the argument does refer to "a relation (i.e. saying something of something) to reality (what is)". Aristotle emphasis was on the notion that truth involves inferences "(viz., his sitting and his not sitting are said to underlie the statements – 'he is sitting' and 'he is not sitting', respectively)" (cited Crivelli, 2004; Szaif, 2006). Hence, it indirectly indicates that thoughts are "likeness" of things conveying useful truths as distinct facts (Crivelli 2004; Szaif 2006).

Künne (2003) argued that truth lies in an agreement with the object while discord with object is to be considered as false. This is consistent with the concept of symphonos whereas the epharmoge concept involves concordance between the known and the knower. A third ancient concept, philoponus treats truth as neither to be understood through things or states of affairs but falls in between. In other words, the essence of truth is not always expressed through discrete facts but is understood as a grasp of the relations existing between phenomena.

Faizan et al. (2019), argued that the expression of relationships in numerical form attains higher factual truthfulness because mathematical objectivity is employed, while useful truth develops by testing propositions for their practical implications. What is truthful is that which works in practice.

While the philosophical stances, "*realism*" and "*pragmatism*" are commonly adopted in social science research, some authors consider them as the same, while others argue that both have separate distinguishing features (Zwieniecki, 2013). Interestingly, Saunders *et al.*, (2013) argued that both look similar and to a large extent, both philosophies combine aspects of positivism and interpretivism. For Saunders, at least, realism, is based on "*factual truth*", whereas pragmatism follows the theme of "*useful truth*" (Saunders *et al.*, 2013; Zwieniecki, 2013).

On the other hand, Lipscomb (2011) argued that realism and pragmatism overlap each other and, thus, the theoretical assumption of the two being different is rejected, with the clear implication that factual and useful truth are one and the same. However, a realist philosophical stance is common when a researcher operates as an independent individual examining a process with the belief that social realities and scientific attempts could be combined (Brace, 2008; Riemer *et al.*, 2012). Thus, to a greater extent, this philosophical stance resembles positivist philosophy by considering sophisticated enough scientific tools to be capable of correct measurement of relationships. In other words, the mathematical objectivity is used to determine relationships, here statistical quantification of relationships. However, this need not exclude follow-up qualitative re-interpretation of results (Matthewsand Ross, 2010; Sekaran and Bougie, 2012).

Interestingly, pragmatist philosophy also combines positivist and interpretivist philosophy, in order to gain both a qualitative and quantitative perspective. However, the main difference is that realism prioritises actual existence as the definition of factual truth, while pragmatic philosophy prioritises useful truth (Saunders *et al.*, 2013; Zwieniecki, 2013). We see no argument here against using qualitative and quantitative methods (for a discussion, see Mathew and Ross; 2010; Sekaran and Bougie, 2012); or to use fairly recent terminology, to embrace both interpretivist and positivist philosophies, *when it is useful to do so*.

We are reminded of Aquinas' balanced formula: "equation of thing and intellect" which accommodates not only judgements and thoughts but individuals and things (for instance; a true friend) (cited Finnis, 2017). Aquinas identifies true thoughts as derived from conformity between through and reality while in a person trueness results from the confirmation of thoughts (Finnis, 2017), the deepest truth grounds within the truth resulting from the fact and its relation to truth.

Künne (2003) seems to make a similar distinction when he differentiates between object-based and fact-based versions. It can be argued that the opinions, views, and expressions of the individuals under study offer useful extensions beyond numerically expressed relationships. Respondents also have their theories too, especially when asked what they think the causal relationships between variables might be on the basis of their own experiences of how they vary. Both factual and useful truth combined in this research to explore research phenomena as mathematical objectivitiy and exploration of embedded realities are explored in our thesis. (For further details about factual and useful truth, *See* Appendix F).

### 4.3.3 Axiology

Axiology is considering particular type involves the ultimate values, as a special consideration (Hogue, 2011), patterns and aspects preferred over others. The author has affiliations with the education sectors in Pakistan and the UK and values his obligations to them in terms of stress reduction, in other words, our preferences result from having a stake in these two countries' education sectors.

We favour the inclusion of literature from the last five decades rather than earlier and have preferences for cross-sectional comparative research over longitudinal design and for studies from different sectors which also explore the relationship between occupational stress and organisational commitment. Additionally, the inclusion of the professional occupational therapist and for pragmatism can also be described as axiological along with "*meta-analysis*" of both quantitative and qualitative studies as means to identifying research variables in a systematic manner. In addition, a preference for explanatory rather than descriptive studies is part of our stance, as is the objectivist epistemological stance, here preferred over the alternatives. We favour comparative knowledge that is not limited to a single region, which increases the generalizability of the findings, to a certain extent.

### 4.4 Research Type

There have been many attempts to create typologies of research. Among other ways of classifying knowledge, Sekaran and Bougie (2012) classified research into basic and applied types of research, while Brace (2008) categorized research into three distinctive types, namely: quantitative research, qualitative research and pragmatic (mixed) research. The important theme of basic research is expanding existing knowledge and, therefore, research is based on

an existing research problem, whereas applied research is devoted to a particular problem with a view to making an intervention. Our research is basic in that it is an attempt to enhance the existing body of knowledge of a research phenomenon. Moreover, this is pragmatic (mixed) research as it uses both quantitative and qualitative methods to suit the research question.

### 4.5 Research Approach

Yet another classification is to distinguish research as either inductive, deductive, or abductive, arising from specific types of research philosophy (Brown, 2012; Saunders *et al.*, 2007). The gathering of empirical 'facts and figures' with a view to developing a thory is treated as inductive, while an attempt to confirm or refute (test) a given theory is often described as deductive (Sekaran and Bougie, 2010). The testing of hypotheses is not the principle aim of the inductive approach (Sekaran and Bougie, 2012).

Abduction is the combination of both, either by starting with inductive approach and followed by deductive approach or vice versa, often as an iterative (repeated) cycle.

In the present research, Sekaran and Bougie's (2012) proposed "hypothetico-deductiveinductive" (abduction) model is used, starting with a deductive approach, followed by an inductive approach to re-analyse the primary findings. At the commencement, the quantitative method is used to test the hypotheses for their statistical significance. This is followed by application of an inductive, qualitative approach which allows for interpretations. This abductive design suits the present study, not least because the existing literature is far from agreed both as to the theory to use and how the phenomena under study are to be defined. Indeed, it is striking that the prior literature contains serious differences and disputes even as to what it is that its to be tested.

### **4.6 Research Design**

According to Sekaran and Bougie (2012), the research design plays a significantly important role in articulating the process of data collection. For Creswell (2013) design is necessary to enable researchers to collect data within a specific duration, a structure or planned sequency involving choices of tools and techniques (Sekaran and Bougie, 2007).

This study undertakes a cross-sectional research design because respondents are studied only once within a given time interval, longitudinal research usually being beyond the resources available for doctoral research in the social sciences. Comparisons are a powerful means of making sense, in this case looking for synchronic differences and similarities between a developed and a developing economy, teaching versus non-teaching staffs and between males and females. By limiting the bases for comparison, boundaries can be placed around the study, but in ways that are relevant to other researchers who may be interested in the same set of variables. We follow Haque *et al.*, (2018) and Haque *et al.*, (2017) who also used crosssectional designs to investigate comparative variations within sub-groups. The objective of the study is to identify expected variation between the gender, faculty, and economies of interests by creating a comparison. However, this approach does not exclude to possibility of surprising similarities between samples.

### **4.7 Research Methods for Data Collection**

Quantitative, qualitative and mixed methods are commonly used data collection techniques in social science research (Sekaran and Bougie, 2012). According to Smith (2010), two traditional methods: "qualitative "phenomenological" interpretivism" and "quantitative 'scientific' positivism" are often presented as if deep rivals to one another, with "students [encouraged to] assemble "advantages and disadvantages" of each, pledge their allegiance, or a preference for "mixed method" (wishing for a "truce" in the "paradigm war")" (Smith, 2010). However, we do not have an absolute commitment to either, favouring 'mixed methods'. McNabb (2008) argued that that a quantitative descriptive method mainly investigates the relationship between research variables defined in advance, while causality is the major development of a quantitative experimental study which often take the form of laboratory observations of the effects of different 'laboratory conditions' on the results, usually informed by a theory. For Singh (2007) quantitative studies seek to establish statistically significant correlations between research variables with numerical expression as the key feature. This is usually but not exclusively true also of social and psychology laboratory experiments. Advocates of quantitative methods usually make the claim that their stance is objective stance believing that numerical significance and logical conclusions warrant this claim (Creswell, 2013). This however presupposes that the measurements used apply reliably to the variables as defined, and that all respondents interpret each questionnaire item in the same way, rather than place different meanings on them. To answer any question is to give a subjective response (that of each of the respondents in turn). Note that the researcher's act of defining what a variable is, how to translate it into everyday language that respondents will understand, how to measure it and the interpretation of the results all involve subjective judgements which may not be shared by every researcher in the field, allowing for disagreements.

The present thesis requires both numerical significance and in-depth exploration of research variables; pragmatic (mixed) methods appropriate to gaining greater understanding of the relationships between occupational stress and organisational commitment and other variables. In other words, it keeps the options and dimensions as open as practicable in the form of an hypothetico-deductive-inductive (abductive) cycle – a survey for the purpose of statistically testable data then in-depth interviews which dwell rather more on respondents experiences of what researchers have come to call 'stress' etc.

As we have stressed, we have an axiological commitment to both 'factual truth' and 'useful truth' and to allowing for a deeper understanding that goes at least some way beyond our numerical data. Quantitative methods have the advantage of making research simpler and more straightforward. On the other hand, the qualitative methods provide developmental opportunities.

The interview evidence allows us to explore emergent themes which may not have been anticipated and allowed for within a structured questionaiire design (for further details see Appendix F). The use of different techniques also allows for cross checks strengthening, we think, the reliability of the work (Kiliçoglu, 2018).

Given the difficulties mentioned above in terms of how questionnaire items are phrased and understood, the expressions and feelings of each respondent cannnot always be captured accurately through quantitative surveys and even if each question is presented and explained in the same way to every respondent, there is no guarantee of common understandings of all the same concepts among respondents (Buzdar et al., 2016; Kiliçoglu, 2018) hence the inclusion of interviewing (see also McKim, 2017). Our design allows for the possibility that the qualitative and quantidative evidence will conflict.

One of the strongest reasons for seeking both qualitative and qualtitative evidence has to do with consciousness itself. Instantaneous answer can be found to more straightforward questions, while respondents may need more time to respond to more demanding questions for which they need to recall and assemble answers from experiences which are held in the form of unconscious memory. These answers will come to the foreforont of respondents' minds, but they take the time offered through sympathetic interviewing. This kind of data will have a cpmparatively more fluid structure and be more discursive and considered.

# **4.8 Sampling Techniques**

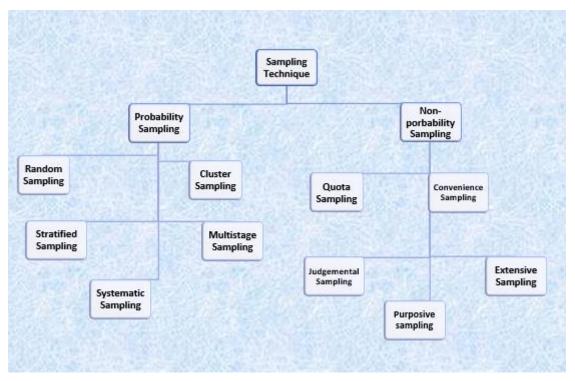


Figure 4. 2: Sampling techniques (Hair et al., 2007).

The question arises: 'Who should we choose as respondents and how should we choose them?' Hair *et al.*, (2007) broadly categorized sampling techniques into probability and non-probability. Sekaran and Bougie (2010) explain that an equal chance of selection for all who are encompassed in a sampling frame is a 'probability-sampling' technique, whereas 'non-probability sampling' accords respondents unequal chances of being included in a study (Gingery, 2009). Sekaran and Bougie (2012) explain that probability sampling is effective when researchers are seeking to make wider generalization (beyond their samples) whereas non-probability sampling is useful when time and other factors become more critical than generalization and where all respondents are integral parts of a common system, such as urban politicians within the same city, or members of the same university.

Sampling is further divided into 'stratified' sampling in which respondents are drawn proportionately to represent different populations within the same system, which may be accomplished through 'Area sampling' (Sekaran and Bougie, 2012). Stratified (probability) sampling enables researchers to represent a population more accurately according to its sub-groupings (Hair *et al.*, 2007; Haque, 2007; Sekaran and Bougie, 2012) (For further details see Appendix F).

In this research, both probability and non-probability sampling techniques are combined for selection of the respondents and extraction of information. Stratified sampling is used representative of very different types of economies; Pakistan being an example of a developing economy, whereas the UK is a developed economy. Male and Female and teaching and administrative staff are also selected by using proportionate, stratified sampling. An element of area cluster sampling is also used in the selection of educational institution. While few researchers can be one-hundred percent sure of the representativeness of their samples, the above-mentioned sampling techniques reduce the risks of sampling errors significantly.

Inclusion of a snowball sampling technique, in the early stage, is to ensure that knowledgeable participants are included. By approaching one knowledgeable contact at the targeted institutions, such as HR departments, a Registrar, an Operations Head, a Vice Chancellor or a Dean, and then asking them for recommendations as to who to interview next, the researcher is able to develop a chain of referrals, reaching an otherwise hidden population through these points-of-contact (gatekeepers). Administrators, gatekeepers and HR officers were contacted by email with a brief overview of the purpose of the research, an estimate of the time needed to complete a survey and for interviews.

#### **4.9 Population and sample size**

According to Sekaran and Bougie (2012), a population is an entire set, whereas a sample is subset representative of a population. It is difficult and costly to study all the events for a large population therefore, suitable representatives are needed if results are to be generalized across the entire population from which they are drawn. In this thesis, all universities in Pakistan and the UK formed the population. Additionally, 'middle range' universities are the sub-categoriies chosen for both countries. And within this population, we targeted universities offering business and management courses which were also public or semi-private universities.

Official government lists of universities were obtained and from this official data on the site (etc) of each institution was available. Area-clustering sampling was used effectively for selection among these institutes. We relied on gatekeepers to ensure proportionate selections of teaching and non-teaching staff, after briefing them to ensure that both types of employees were open to selection according to the sizes of both respective sub-samples.

#### 4.9.1 Determining Sample Size for Interviews:

A formula for marginal error was used to determine sample size. According to LeBlanc (2004) it is a convention that a  $\pm 3$  "*margin of error*" is permissible but that this is only possible if the

researcher has control over confidence level and sample size. Nevertheless, to a large extent, researchers do not have control over the parameters of population 'P' that affects the value of ' $\hat{p}$ ', and hence the probable estimation of population is likely through the formula of M.E (Margin of Error) M.E= $\frac{z\sqrt{\hat{p}(1-\hat{p})}}{n}$  (Rumsey, 2002; LeBlanc, 2004; Jamal, 2013). On the other hand, Rumsey (2002) and Jamal (2013) argued that the margin of error in *social science* research can be up to ±4 and still be considered acceptable. Since, this study is social science the M.E is thus 0.04 for measuring the sample size. Thus, the formula for determining the

sample size here is  $\mathbf{n} = \frac{z\sqrt{\hat{\mathbf{p}}(1-\hat{\mathbf{p}})}}{M.E}$ .

4.9.1 Determining Sample Size for Questionnaire:

$$M.E = \frac{z\sqrt{\hat{p}(1-\hat{p})}}{n}$$

z = 1.96 with 95% confidence

 $M.E = \pm 4\% (0.04)$ 

n= Sample Size

 $\hat{p}$  = prior judgement of the correct value of p (Probability to have more than 20% of population)

$$M.E = \frac{z\sqrt{\hat{p}(1-\hat{p})}}{n}$$
$$n = \frac{z\sqrt{\hat{p}(1-\hat{p})}}{M.E}$$

$$\mathbf{n} = \frac{\hat{p}(1-p)z^2}{M \cdot E^2}$$
$$\mathbf{n} = \frac{0.2 \ (1-0.2)(1.96)^2}{(0.04)^2}$$
$$\mathbf{n} = \frac{(0.2 \ X \ 0.8)X \ (1.96 \ X \ 1.96)}{0.04 \ X \ 0.04}$$
$$\mathbf{n} = \frac{0.16 \ X \ 3.8414}{0.0016}$$
$$\mathbf{n} = \frac{0.614624}{0.0016}$$
$$\mathbf{n} = 384 \ 14$$

Using Jamal's marginal error formula, we arrive at a minimum sample size for our survey of **384** respondents to draw generalizable conclusions.

#### 4.9.2 Determining Sample Size for Interviews:

Of the interviews, 98 participated (we ensured there is equal split between gender, economy and faculty. In other words, out of 98, we ensured 49 each participate from the UK and Pakistan. Similarly, in terms of gender, we ensured to have equal representation of 49 each males and females and likewise, for teaching and administrative staff). Additionally, the "saturation-point" was attained in the research after reaching 98 participants. According to Morse et al., (2006), the sample size of 30 or above is usually sufficient in reaching the pointof saturation (cited Haque *et al.*, 2018), by which we mean the point at which the  $n^{\text{th}}$ . Respondent adds nothing new to what previous respondents have said. Yet Creswell (2013) states that in comparative studies (which our's is) 30-50 interviews are usually sufficient for reaching saturation point. Since, this is a comparative analysis and the sample is not only equal in terms of the major groups but also higher than the suggested benchmark of Creswell (2013), we feel that we have attained acceptable sample sizes. The sample size could have been improved further by increasing the number of participants to 50 for each group, giving a total of 100 respondents. However, the saturation point was attained at 98 and, thus, the responses became repetitive therefore the addition of two respondents would not have affected the outcome proportion indifferently. Therefore, it was decided that the sample size was sufficient to draw logical conclusions. Note here that it is difficult to determine whether sample sizes are adequate without knowing how much variance will emerge across all responses. If populations are more-or-less unanimous in their answers then we could have confidence in smaller samples.

We argue that both the survey and interview sample sizes are consistent with custom and practice as reported in the methodological literature.

#### **4.10 Research Instrument**

Semi-structured, matrix-based survey and a semi-structured interview schedule are the two research instruments used in this study. As explained above, quantitative techniques allow for statistical analysis, while exploration of the research phenomenon is allowed through qualitative interviewing.

#### 4.10.1 Self-constructed and Online Survey

For the survey, the main instrument, the researcher followed a DAB (demographic, attitudinal, and behavioural) strategy. Our matrix-based semi-structured survey contained multiple choice questions and a rating scale. LIKERT scale with six-points (*Strongly Disagree=1, Disagree=2, D* 

*3=Moderately Disagree, 4=Moderately Agree, 5=Agree, 6=Strongly Agree*) was used for variables related to occupational stress and organisational commitment. Intentionally the option of 'neutral' was omitted as researcher wanted the participants to state the balance of their opinion one way or the other. This was done in order to strengthen positive or negative relationships among these variables. Nevertheless, some questions were given scales running from low to high (0-to-10), specifically for occupational therapy.

"GOOGLEDOC", was used to develop this online survey. The link was forwarded to gatekeepers in targeted universities with a request to share it with teaching and administrative staff. The researcher could have met with the employees in person when distributing the questionnaire, but preference was given to online delivery so that no direct contact took place as a precautionary measure. We were concerned that some respondents might be have been stressed enough already and any perceived face-to-face pressure to participate may have been harmful to them. It may be easier to say 'yes' or 'no' freely to an anonymous request for participation.

Gender, age, education, experience and faculty formed the demographic variables. The researcher ensured through demographic questions, that the respondent's background could be verified, to aid the reliability of the findings in terms of the respondents' knowledge and experience. Attitudinal and behavioural questions followed these demographic questions. We checked that our sample was representative of the presence of professional occupational therapists within the UK and Pakistani universities.

#### 4.10.2 In-depth face-to-face and SKYPE Interviews

As part of our pragmatic approach, a semi-structured, open-ended interview was employed, allowing for flexibility. The points-of-contact (Gatekeepers) were informed of participants' voluntary participation. Additionally, it was the gatekeepers' task to arrange interview days and times. The option of participating either via Skype or directly person-to-person was offered for respondents' convenience. In order to ensure those participants selected for interviews had not participated in a survey, the researcher used snowball-sampling.

The procedure was as follows:

First, the "*point-of-contact*" within each university was given the responsibility of circulating details of voluntary interview participation and for ensuring that those who had already participated in the survey were not interviewed. It was the "gatekeepers" who informed

participants that either they could complete the survey or or participate in an interview, but not both.

Second, chain-referrals were developed through LinkedIn. First contacts operated as 'gatekeepers', arranging knowledgeable participants for the interview. Interviewed participants referred the study to further participants forming a chain-referral (ie. a self-snowballing sample).

In both face-to-face and Skype interviews, the researcher informed participants about the research purpose, expected duration, and option to leave the interview at any time. The researcher assured all participants before the actual interview that all personal details and responses would remain confidential. We began with general questions, such as age, experience, qualification and faculty, then warm up questions, followed by attitudinal and behavioural questions, in order to develop a deeper understanding of the research variables. Since the researcher himself has experience in higher education, he was also able to use his connections (weak ties) in order to reach knowledgeable subjects. The interviews ran over four months (November, 2017 - February, 2018).

For face-to-face interviews, convenient, quota and area-cluster sampling techniques were combined in the interview process. The time duration for each interview was 7 to 12 minutes with an average duration 8 minutes and 33 seconds.

The researcher conducted in-depth review and analysis of each week's worth of interview findings. After 98 interviews, these reviews established that the interviews had reached the "*saturation point*", when no new information was being obtained and there is repetition of previous answers. This point occurred for us much later than as recommended by Morse (2006), who recommends thirty and as recommended by Creswell (2013) who estimates that thirty-fifty interviews will be needed.

The researcher approached a total of 42 universities but only 14 agreed to participate, reflecting a 33.3% response rate in terms of participating institutions. The interview findings were entered manually into an MS Excel spreadsheet. The researcher ensured that the answers were transferred accurately from paper to excel spreadsheet as each set of responses was checked twice. For each question, the researcher developed a new sheet, developing codes in support of thematic analysis, as recommended by Attride-Stirling's (2001) 'thematic network analysis framework'. Verbatim comments were split into meaningful and manageable sizes through

coding and proportional analysis. A check was maintained to ensure that proportionate frequencies by gender, faculty and country were attained.

### 4.10.3 Formulating questions to answer research questions

We developed questions which addressed the variables of interest, and the forms of answers as tabulated below.

| Variable  | Dimension   | Indicator   | Type and<br>Degree<br>of Scale |
|---|---|---|--------------------------------|
| Representation<br>of<br>Occupational<br>Therapist | <ul> <li>Rate of<br/>Representation<br/>of<br/>Occupational<br/>Therapist</li> </ul>  | <ul> <li>I. The representation of professional occupational therapist<br/>in Education sector</li> <li>II. The representation of professional occupational therapist<br/>at your institution</li> <li>III. The impact of professional occupational therapist in the<br/>sustaining human capital in your institute</li> </ul> | Ordinal<br>10 points<br>Likert |
|   | <ul> <li>Effectiveness<br/>of<br/>Occupational<br/>Therapist in<br/>Stress, working<br/>efficiency and<br/>organisational<br/>commitment</li> </ul> | <ul> <li>I. Occupational therapist counselling is effective in reducing different types of stress</li> <li>II. Occupational therapist offers advices/solutions that improves working efficiency</li> <li>III. Occupational therapist address concerns that improve organisational commitment.</li> </ul>                      |                                |
| Personal Strain                                   | <ul> <li>Many tasks in<br/>limited time</li> <li>Tight deadlines</li> <li>Frequency of<br/>mistakes</li> </ul>                                      | <ul> <li>I. I am expected to do many different tasks in too little time.</li> <li>II. I work under tight time deadlines.</li> <li>III. I frequently make mistakes in my work.</li> </ul>  |                                |
| Perceived Job<br>Stress                           | <ul> <li>Responding<br/>badly</li> <li>Thinking while<br/>relaxing</li> <li>Finding<br/>solution by<br/>own</li> </ul>                              | <ul> <li>I. Lately, I respond badly in situations that normally wouldn't bother me.</li> <li>II. While relaxing I frequently think about work.</li> <li>III. I by myself usually find solution for my problems at work.</li> </ul>  | Ordinal<br>6 points<br>Likert  |
| Organisational<br>Commitment                      | • Affective<br>Commitment   | <ul> <li>I. I really feel as if this university's problems are my own</li> <li>II. I would be very happy to spend the rest of my career with<br/>this organization</li> </ul>   | Ordinal<br>6 points            |
|   | <ul> <li>Normative<br/>Commitment</li> </ul>  | <ul> <li>I. I feel a moral obligation to pursue my career path with this university because loyalty is more important for me</li> <li>II. One of the reasons behind working here is I receive emotional and moral support.</li> </ul>   | Likert                         |

 Table 4. 1: Operatinoalization of variables.

| Personal<br>Resources<br>Social Support | <ul> <li>Continuance<br/>Commitment</li> <li>Self-initiative</li> <li>Informal</li> </ul> | <ul> <li>I. Right now, staying with my organization is a matter of necessity as much as desire</li> <li>II. I am not afraid of what might happen if I quit my job without having another one lined up.</li> <li>I. When I need suggestions on how to deal with a personal problem, I know someone at university I can turn to.</li> <li>II. There is someone I could turn to for advice about making career plans or flexible hours.</li> <li>I. I get a social support from my peers and other members.</li> </ul> | Ordinal<br>6 points<br>Likert<br>Ordinal |
|---|---|---|--|
|   | support at<br>work  | II. There is at least one person in this university who listen to my problems.  | 6 points<br>Likert                       |
| Causes of<br>Stress                     | <ul> <li>Personal<br/>Factors</li> </ul>  | I. Family problem<br>II. Financial problem.<br>III Personality Clashes  | Nominal                                  |
|   | <ul> <li>Organisational<br/>Factors</li> </ul>  | I. Role Demand<br>II. Task Demand<br>III. Organisational Structure<br>IV. Leadership<br>V. Interpersonal relationship   |  |
|   | • Environmental<br>Factors  | VI. Lifecycle of the organisation I. Economic uncertainty II. Political uncertainty III. Technological uncertainty  | -  |
| Consequences<br>of Stress               | • Behavioural   | Disturb eating habit<br>Disturb sleep<br>Procrastinating or responsibilities<br>Using alcohol or cigarettes to relax<br>Nervous habits (e.g. nail biting, pacing)   | Nominal                                  |

| 1   |                                 |
|---|---------------------------------|
|   | Aches and pains                 |
|   | Constipation                    |
|   | Nausea                          |
| Physical  | Dizziness                       |
|   | Chest pain                      |
|   | Rapid heart rate                |
|   | Frequent colds or flu           |
|   | Memory problems                 |
|   | Inability to concentrate        |
| Completion of the second se | Seeing only the negative        |
| Cognitive   | Anxious thoughts                |
|   | Constant worrying               |
|   | Depression                      |
|   | Anxiety                         |
| Emotional   | Moodiness                       |
|   | Irritability or anger           |
|   | Feeling overwhelmed             |
|   | Loneliness and isolation        |
|   | Other emotional health problems |
| <u>ا</u>  |                                 |

Similarly, open ended semi-structured interview questions were tied to the variables of interest, of course, expressed in the 'day language' of our respondents. These began with "tell me about your job role (teaching or non-teaching)?", "How many years of experience you have in Education sector?" and "How do feel about it?"

Later questions more searching questions were asked such as, "What do you like most about this job role?" and "Is there anything that you do not like about this job? and why?"

We then asked employees who reported dislikes to estimate how these affected their work efficiency and how they could be overcome. They were asked to share their experiences, and to judge the level of activity and the effectiveness of their institution's professional occupational therapist, their experiences of occupational therapy (if any) and if so, in what capacity their services were used.

Respondents were asked for their understandings of social support, whether they had drawn on it, how effective or ineffective it had been and how things had turned out. Emotional and moral support at work was also enquired after.

How they described organisational problem was used to gauge their affective commitment, their job loyalty, normative commitment. Their willingness to continue with the same organisation was used as a measure of their continuance commitment. They were asked about any participation in stress management programmes, if any, the reasons for their stress and potential consequences of stress.

#### **4.11 Pilot Testing**

Pilot testing undertaken ensuring that the instruments were intelligible, credible, reliable and feasible for the collection of the data. We circulated the online questionnaire separately in the education sectors of Canada and Malaysia; in which countries the researcher also has connections. The pilot study was carried out with people who matched the attributes of the intended ultimate 'target respondents'. Pilot testing took place in May, 2017. As the medium was English, we had to be sure that participants would understand and respond in what would be a second language. In the pilot the researcher used convenience sampling but in the actual study, the sampling technique was improved as described above. From the pilot, researcher had four completed interviews, and twelve completed questionnaires.

These enabled fine-tuning and adjustments to phrasing and flow (sequencing) of some questions. Difficult phrases and words were replaced with simpler undemanding expressions. We found that with minor adjustments, the research instruments were aligned satisfactorily with the objectives of the research, enhancing their crediblity, transparency, reliability and feasibility.

#### 4.12 Data Collection Procedure

After the pilot study the researcher set the criterion for "*inclusion and exclusion*". The minimum age for administrative staff is eighteen years. Interestingly, in both the UK and Pakistan, teaching staff can have a work contract beyond thirty-five years of service. Therefore, we applied no upper age restriction in either country. Additionally, the researcher did not exclude probationary employees. Hence, the option '*less than a year*'s' experience was kept.

Responses were updated automatically once each online questionnaire was completed. A participant could participate in either the questionnaire or the interview but could not both.

| Research<br>Method     | Research<br>Instrument                       | Number of respondents |                       |                             | Participating technique         | Sampling<br>Technique    | Approach to<br>reach<br>respondents                  | Determination of<br>Sample size   |
|------------------------|--|-----------------------|-----------------------|-----------------------------|---------------------------------|--------------------------|--|---|
| Quantitative           | Questionnaire                                | Total 408             |                       |                             | Online                          | Proportionate            | Circulated via                                       | Formula of Marginal   |
| Methods                | Methods (Matrix based 6<br>points rating, 1= | Dimensions            | Description           | No. of<br>Respondents       | questionnaire<br>formed through | stratified, area cluster | Gatekeeper in all targeted                           | Error by LeBlanc (2004)<br>and Jamal (2013)   |
|                        | Strongly<br>Disagree, 2=                     | Economies             | Pakistan              | 204                         | Googledoc.<br>The link was      | sampling,<br>convenience | universities   | $M.E = \frac{z\sqrt{\hat{p}(1-\hat{p})}}{n}, \text{ required}$<br>minimum sample size = |
|                        | Disagree,<br>3=Moderately                    |                       | United<br>Kingdom     | 204                         | shared with the Gatekeepers to  | and purposive sampling   |  |   |
|                        | Disagree,<br>4=Moderately                    | Genders               | Male                  | 204                         | email it to the teaching and    |                          |  | 384.2. Total respondents<br>408. Hence, acceptable                                      |
|                        | Agree, 5=Agree,                              |                       | Female                | 202                         | administrative                  |                          |  | sample size for drawing logical conclusion.   |
|                        | and 6=Strongly<br>Agree)                     |                       | Undisclosed<br>Gender | 2                           | staff in target organisations   |                          |  |   |
|                        |  | Faculties             | Teaching Staff        | 204                         |                                 |                          |  |   |
|                        |  |                       | Administrative staff  | 204                         | -                               |                          |  |   |
| Qualitative<br>Methods | Interviews<br>(Open ended,                   | Total 98              |                       | One-on-One<br>(Face to face | Quota<br>sampling,              | Network,<br>connections  | Point-of-Saturation to determine the number of       |   |
|                        | semi-structured questions)                   | Dimensions            | Description           | No. of<br>Respondents       | and SKYPE)                      | snowball,<br>convenience | nowball, and referrals<br>onvenience<br>nd purposive | respondents. Using Haque et al., (2018) and   |
|                        |  | Economies             | Pakistan              | 49                          |                                 | and purposive            |  | Creswell (2013) strategy.   |
|                        |  |                       | United<br>Kingdom     | 49                          |                                 | sampling                 |  |   |
|                        |  | Genders               | Male                  | 49                          |                                 |                          |  |   |
|                        |  |                       | Female                | 49                          | -                               |                          |  |   |
|                        |  | Faculties             | Teaching Staff        | 49                          |                                 |                          |  |   |
|                        |  |                       | Administrative staff  | 49                          |                                 |                          |  |   |

# Table 4. 2: Current Study Data Collection Procedure.

## 4.13 Data Analysis and Tools

According to Thorne (2000), data analysis poses one of the biggest challenges to the researcher, especially of qualitative data. Quantitative and qualitative analysis techniques and tools require thoughtful data examination within a range of recognised statistical processes. For this purpose, the researcher used AMOS and IMBM SPSS 23.1 to quantify relationship between variables of interest. Q-Q plots and graphs are used for determining the equal and normal distribution of data given the number of respondents. Later, the fitness of the model is measured using AGFI, AIC, CFI and RMSEA. It is confirmed that the model is a good fit. Furthermore, explanatory factor analysis using KMO and the Bartlett Test, finds total variance cumulative percentages. Test results confirmed that the factors are adequate for explaining the data. The use of "structural equation modeling" is undertaken in this study to measure the total size effect of the predictors on the dependent variables.

As explained above, the researcher combined a cross-comparative and phenomenological analysis technique for gaining a detailed understanding of the research variables. The researcher has since explored the variables of interest in a cross (contrasting) comparative manner.

# 4.14 Methodological, Thematic and Comparison of two-perspective review

The procedures, methods and research design employed reflect a methodological review (Johnston, 2007). The researcher ensured that all of the information collected from participants was saved in an MS Excel spreadsheet and checked twice using a downward-upward approach ensuring that no data was missed. Furthermore, the frequency tabulation check was continued for re-assessing; individual checking is part of the thematic reviewing process.

## 4.15 Methodological Difficulties

Some respondents found terminologies like 'occupational therapy', 'human capital' and 'anxiety' to be confusing. Therefore, researcher sent an attachment containing all such technical terminologies. Although, there is a possibility that the participants will have found it difficult to translate their experiences into responses. And it was important that respondents had experience of the effectiveness of occupational therapist to respond. In interviews, the participants were asked if they have used occupational therapist's counselling services. Only

then they were asked the follow up questions of their effectiveness. Similarly, those who hadn't used it at first hand, but seen others' using it where asked how they perceive its effectiveness. The proportional analysis was carried out to differentiate these two sub-samples. However, as it is difficult for respondents to judge how effective occupational therapy had been for their 'stress' levels etc. and even more difficult to assess its effects on third parties we should only read the responses as attitudinal statements interlinked with other attitudinal statements rather than considering them as factual statement. This remains a major weakness of the thesis.

The questionnaire was designed to examine the consequences of stress such as physical effects (aches and pains, diarrhea or constipation, nausea, dizziness, chest pain, rapid heart rate, loss of sex drive, frequent colds or flu), behavioural (eating more or less, sleeping too much or too little, withdrawing from others, procrastinating or neglecting responsibilities, using alcohol, cigarettes, or drugs to relax, nervous habits (e.g. nail biting, pacing)), emotional (Depression or general unhappiness, anxiety and agitation, moodiness, irritability, or anger, feeling overwhelmed, loneliness and isolation, other mental or emotional health problems), and cognitive (memory problems, inability to concentrate, poor judgment, seeing only the negative, anxious or racing thoughts, constant worrying) based on Stranks (2005).

Since, there was no conclusive evidence from previous studies measuring the magnitude of these effects of stress, thus, attempt was made to gather it. However, due to constraints on the length of time taken to complete the survey, we did not enquire which of these effects (above) the respondents had experienced, nor when. To have tied them to causes of stress namely, personality, financial problems, family problems, organisational role demands, task demands, life-cycle, organisational structure, interpersonal relationships, organisational leadership, and environmental factors, technological uncertainty, political uncertainty, economic uncertainty would have required hundreds of items. It was decided therefore to make a simple attempt at finding the magnitudes of stress and its consequences through a broad comparative lens.

Interview participants were briefed as to make them comfortable about the sessions and to explain the purpose, timing details and other technical terminologies. A number of difficulties with the survey questions were minimised yet, it could be said that most of the responses in the primary data reflect attitudinal statements interlinked with other attitudinal statements and again, not as factual statement. Though we accepted that this is a weakness we think it is one which future researchers can avoid by redesigning and modifying the questions to increase the facticity of the responses.

However, the instruments remain valuable as they permit reanalysis of each response by "thought style" and using Group-grid cultural theory. Thus, responses will have fallen into fatalism, individualism, collectivism, or egalitarianism or hybrid combinations of these forms of feelings, reasoning and action. We uphold the value of individual-competive reasoning here, noting that mistakes enable both self and others to learn and improve and not to repeat the same mistakes.

### 4.16 Ethics

Resnik (2015) defines ethics as, "*norms for conduct that distinguish between acceptable and unacceptable behaviour*". Dantzker and Hunter (2012) argued it is essential to ensure that researcher is undertaking legally and morally defensible steps. (For further details, *see* Appendix F).

All respondents were informed about the research purpose, guaranteed confidentiality and told the expected duration for completion of the survey and interviews, their informed permission being required. The points-of-contact and participants were assured the data would only be used for academic purposes and not for personal or commercial gain. No reward was offered for participation. We approached all the selected institutions in a formal manner by sending an email using the author's official UWTSD University ID, to the HR departments, registrars and other official and authoritative points-of-contact.

### 4.17 Reliability

Consistency is one of the elements for ensuring reliability (Healy and Perry, 2000), enabling transformation of raw data into a meaningful form. As the present research contains a mixed methodology having both qualitative and quantitative approaches, different techniques were used as reliability checks.

The researcher had used similar instruments for three pieces of research, and this reflects the "*test re-test reliability*" technique. The questions asked of respondents were driven by Allen and Meyer (1997); Sanda and Sackey (2008); and Haque and Aston (2016) and, this itself is a source of consistency, reinforcing the 'test re-test reliability' principle

*Cronbach's alpha* is applied, which is a statistical test for reliability, measuring the internal consistency of all items on the scale (Tavakol and Dennick, 2011). In other words, the objective of this reliability test is ensuring the items' alignment on the scale. We obtained a *Cronbach's alpha* value of 0.815, reflecting that the items on the scale are aligned. According to Tavakol

and Dennick (2011), a value greater than 0.70 obtained through "*Cronbach's alpha*" technique reflects that the instrument is reliable. In this study, the obtained value confirms that the consistency is good. the "*parallel-forms reliability*" is another technique used in this study. The researcher created subsets of the large questions, asking one question in two different ways and administered the responses again to ensure consistency.

### 4.18 Validity

According to Patton (2001), a researcher ensures that the research is not only reliable but also valid. The considerations are subject to question if the researcher ensures reliability but fails to confirm validity in the research process (ibid). There are two types of validity: internal and external (Punch, 1998; Roberts and Traynor, 2006). Internal validity indicates that the causes addressed affect outcomes, minimizing unanticipated occurrences by means of construct, content and criterion validity (Punch, 1998; Roberts and Traynor, 2006). External validity concerns the extent which research findings will be applicable to other settings with with different sets of people (Punch, 1998: Roberts and Traynor, 2006).

Sekaran and Bougie (2012) argued that there is a trade-off between precision and confidence in the research. In other words, to increase one, the other has to be reduced to some extent. Nevertheless, Trochim (2006) explained that in qualitative studies, credibility, transferability, dependability and conformability are still important attributes of validity. Conformability indicates a likelihood that similar findings would emerge when particular types of research methods are applied again (ibid).

In the present thesis, the researcher took all precautionary measures to ensure that response biases were reduced. Hence, the researcher offered no monetary rewards, appreciation tokens or incentives, at any stage, to the participants or points-of-contacts. Furthermore, the subject and purpose of this study does not require any prior training beyond an appendix or technical terms and, therefore, it was not offered.

### 4.19 Summary:

The researcher has presented a research flow chart, which shows the steps of the present research.

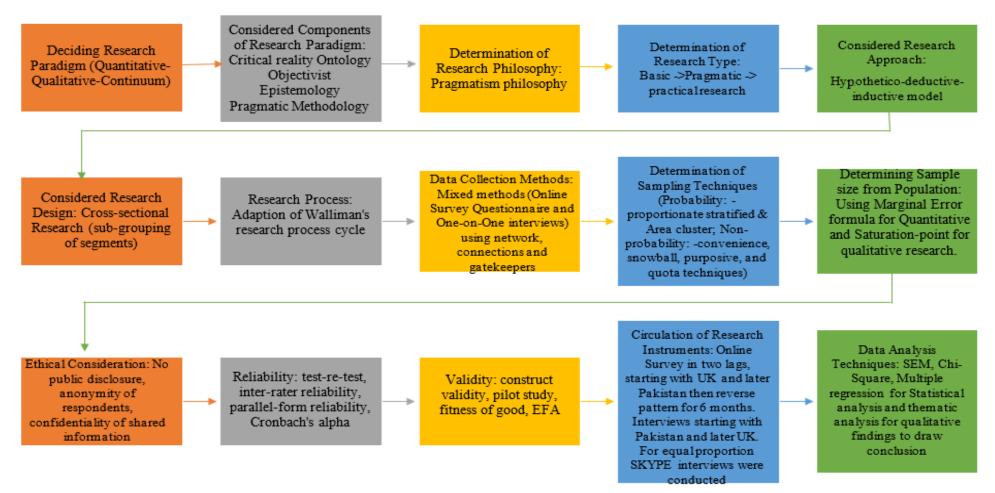


Figure 4. 3: Research flow chart of present thesis

The aforementioned steps show the entire process. After determining the ontological and epistemological stance in research, the pragmatic philosophy was undertaken to ensure that useful truth is explored using both quantitative and qualitative methods. The research is categorized as basic pragmatic research, aiming to advance an existing body of knowledge, using the hypothetico-deductive-inductive cross-sectional research design described earlier. To determine sample size, we used the marginal error formula and saturation-point by combining proportionate stratified, area cluster, purposive, quota, convenience, and referral sampling technique to draw logical conclusion.

The research instruments' validity and reliability were ensured through triangulation, pilot testing, demographic checks, Cronbach's alpha, goodness-of-fit and EFA. The research was completed in two lags starting, first the UK then Pakistan. Equal propositions of interviews followed. Later statistical techniques including SEM, Chi-Square and multiple regression was used while for qualitative findings we adopted thematic analysis.

| Components      | Techniques      | Rationale                               | References      |
|-----------------|-----------------|---|-----------------|
| Reliability     | Cronbach's      | Statistic used in social science for    | Sekaran &       |
| Test            | alpha           | measuring the items are aligned on the  | Bougie, (2012), |
|                 |                 | scale, reflecting the research          | Haque & Aston   |
|                 |                 | instrument adopted for research is fit  | (2016) and      |
|                 |                 | for purpose. The threshold value of     | Taber (2017)    |
|                 |                 | 0.7 or above research instrument is     |                 |
|                 |                 | acceptable.                             |                 |
| Equal and       | Proportional    | Proportional analysis is to ensure data | Altman &        |
| Normal          | analysis and Q- | is equally distributed among the        | Bland (1995),   |
| Distribution    | Q Plots         | considered sub-groups namely;           | Ghaesmi &       |
|                 |                 | gender, faculty and economy.            |                 |
|                 |                 | Shapiro-Wilk test has a limitation in   | · · · ·         |
|                 |                 | satisfying normality assumption when    |                 |
|                 |                 | the number of respondents is excess to  | Cockrill (2017) |
|                 |                 | 300, thus, Q-Q plots are used for       |                 |
|                 |                 | determining the normality of data       |                 |
|                 |                 | distribution.                           |                 |
| Fitness of the  | AGFI, CFI,      | For ensuring the SEM model's fitness,   | Shigeno (2017)  |
| Model           | GFI and         | the explanatory power of Adjusted       |                 |
| (Validity Test) | RMSEA           | Goodness-of-Fit Index (AGFI) and        |                 |

| Table 4. 3: Models applied to quantitative and | qualitative analysis |
|--|----------------------|
|--|----------------------|

|  |  | Goodness-of-Fit Index (GFI) above<br>0.9 reflects good fit. Similarly, the<br>value of Root Mean Square Error of<br>Approximation (RMSEA) index less<br>than 0.10 reflects the amount of<br>freedoms divergence between the<br>actual and estimated distribution of<br>the model is acceptable whereas<br>Comparative Fit Index (CFI)<br>reflecting lower value indicates model<br>is a good fit for the research project. |  |
|--|--|--|--|
| Categorical<br>Data Statistical<br>Analysis                                    | Chi-Square<br>Test   | For non-continuous (categorical) data,<br>Chi-Square Test is used for measuring<br>the statistical significance of variables<br>of interest.   | Pallant (2014)   |
| Exploratory<br>Factor<br>Analysis<br>(Validity test)                           | KMO &<br>Bartlett Test,<br>communalities<br>and Total<br>Variance<br>Explained                     | The dimension reduction option of<br>SPSS is used to measure the validity<br>of construct and a threshold value of<br>0.7 in KMO & Bartlett reflects<br>acceptable construct. The<br>communalities extraction helps in<br>checking the maximum likelihood<br>whereas measuring of total variance<br>explained is to assess the items on the<br>scale explaining the validity of<br>construct.                              | Gaskin &<br>Happell (2014)                               |
| Partially<br>Recursive<br>Model  | Structural<br>Equation<br>Modelling  | This model is considered because<br>independent variables are multi-<br>directional and correlated with causal<br>effects but endogenous variables<br>among themselves have no direct<br>effect. The model is effective in<br>determining the total size effect of<br>exogenous variables on endogenous<br>variables.  | Gaskin &<br>Happell (2014)<br>and Shigeno<br>(2017)      |
| Proportional<br>Analysis   | Bar diagram<br>and<br>proportional<br>representation<br>of Causes and<br>Consequences<br>of stress | Representing the causes and<br>consequences of stress in diagram and<br>percentages in order to have holistic<br>outlook regarding the variation within<br>the sub-attributes of stressors and<br>symptoms.  | Haque et al.,<br>(2017) and<br>Zehra & Faizan<br>(2017). |
| Statistical Test<br>for measuring<br>the impact of<br>variables of<br>interest | Multiple<br>regression and<br>Group<br>Statistics  | For continuous data, in the presence of<br>sub-groups, within an interval<br>variable through the variance<br>predictor the multiple regression<br>determines the relationship between<br>dependent and independent variables<br>more effectively.   | (2000),<br>Kariminalayer                                 |

The above table sets out the statistical models and qualitative approach used in this research.

# **CHAPTER FIVE: RESEARCH FINDINGS AND DISCUSSION**

## **5.1 Introduction**

This chapter contains the results, findings and discussion, based on the primary data attained from a target audience at universities in the UK and Pakistan, for determining the impact of varying, occupational stressors affecting the organisational commitment of teaching and administrative staff. The chapter is divided into two parts,

- (a) survey results, and discussion of survey findings
- (b) interview findings and discussion

Lastly, the overall findings are discussed through Hofstede's cultural dimensions before summarizing the key findings.

## 5.2 Questionnaire - Results, Findings and Discussion

The questionnaire adapted Haque and Aston's (2016) "DAB (demographic, attitudinal, and behavioural) strategy" placing demographic variables (gender, age, faculty and experience) first, then warm-up question, then attitudinal questions and finally behavioural questions. This section is summarised as follows:

| Features of quantitative section                                      |  |   |  |  |
|---|--|---|--|--|
| Components  | Techniques   | Results   |  |  |
| Reliability Test  | Cronbach's alpha   | Acceptable (=.815)  |  |  |
| Equal and Normal Distribution   | Proportional analysis,<br>Q-Q plot   | Equal proportions in all<br>dimensions<br>Data normally distributed   |  |  |
| Fitness of the Model (Validity Test)                                  | AGFI, CFI, GFI, RMSEA  | AGFI= 0.926 (acceptable)<br>CFI=0.934 (acceptable)<br>GFI=0.967 (acceptable)<br>RMSEA=0.051 (acceptable)<br>Fitness of model is good  |  |  |
| Exploratory Factor Analysis (EFA)<br>(Validity Test)                  | KMO & Bartlett's test;<br>Communalities;   | =8.15 (good and acceptable)<br>All above > 0.3 (EFA acceptable)   |  |  |
|   | Total Variance Explained   | 60% variance explained by<br>factors (EFA acceptable)   |  |  |
| Partially Recursive Model   | Structural Equation<br>Modeling  | Overall impact of the<br>predictors on the AC, NC, & CC<br>The Total Size effect of<br>exogenous variables on<br>endogenous variables (some<br>variables have perfect while<br>others have partial mediation) |  |  |
| Proportional Analysis   | Bar diagram and<br>proportional<br>representation of<br>Causes and<br>consequences of stress | Results confirmed that overall<br>causes and consequences vary<br>in the public universities of the<br>UK and Pakistan  |  |  |
| Categorical Data Statistical Analysis                                 | Chi Square Test  | Causes and consequences of<br>stress differ significantly in<br>contrasting economies,<br>genders, and faculties.   |  |  |
| Statistical Test for measuring the<br>impact of variables of interest | Multiple Regression &<br>Group Statistics  | The predictors impact<br>differently on AC, NC, & CC in all<br>three dimensions. There are<br>variations in the visibility  |  |  |

#### Table 5. 1: Features of quantitative section

### 5.2.1 Reliability

One of the essential aspects of the research is to ensure that the data is reliable, consistent and the test is free from measurement errors (De Bruin, 2010). Reliability indicates replicability and consistency over time (ibid). Studies with higher measurement error rates are less reliable (Moss, 2004; McMillan and Schumacher, 2006; Fraenkel and Wallen, 2009; De Bruin, 2010; Neuman, 2011). According to Sekran and Bougie (2010) and Hinton, McMurray and

Brownlow (2014), there are several ways of examining reliability; however, the most popular of all is Cronbach's coefficient alpha. It reflects the internal consistency among the items on a scale (Sekaran and Bougie, 2010; Hinton *et al.*, 2014; Haque *et al.*, 2017). A number of researchers have agreed that 0.7 is acceptable, 0.8 is good, while 0.9 is excellent (Hinton, *et al.*, 2014; Sekaran and Bougie, 2010; Wieland *et al.*, 2017). Hence, in this study, Cronbach's alpha test is considered for examining the reliability aspect.

|       |                       | Ν   | %     |
|-------|-----------------------|-----|-------|
| Cases | Valid                 | 404 | 99.0  |
|       | Excluded <sup>a</sup> | 4   | 1.0   |
|       | Total                 | 408 | 100.0 |

**Table 5. 2: Case Processing Summary** 

a. Listwise deletion based on all variables in the procedure.

 Table 5. 3: Reliability Statistics

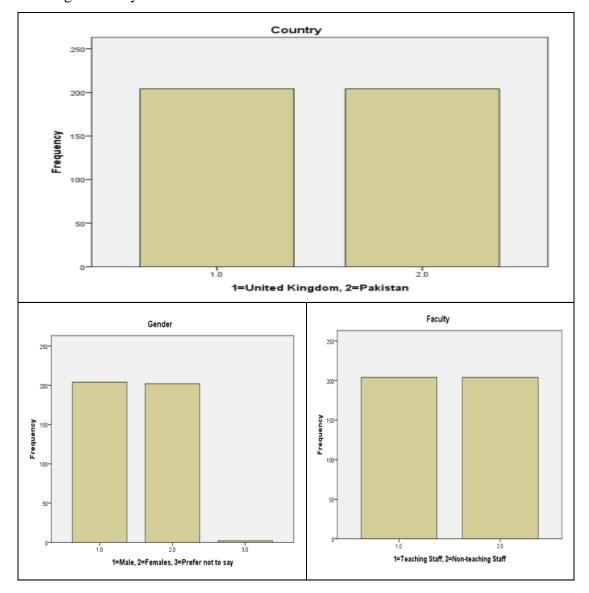
| Cronbach's<br>Alpha | Cronbach's Alpha Based on<br>Standardized Items | N of Items |
|---------------------|---|------------|
| .807                | .815  | 24         |

Our Cronbach's alpha is 0.807, which is above that which is a generally acceptable (0.807 > 0.7) value in social science research. It indicates that the internal consistency of the dimensions is good and will explain a large amount variance (Nunnally and Bernstein, 1994). In this sense this research is 'free from measurement error' to an acceptable degree.

#### **5.2.2 Equal and Normal Distribution**

According to Curran-Everett and Benos (2004), the normal distribution assumption should be satisfied in order to use parametric tests such as correlation, regression, t tests and analysis of variance (cited Ghasemi and Zahediasl, 2012). Although it is fine to consider normality and other assumptions to draw an accurate and reliable conclusion, with a large sample size, if the normality assumption is violated, it still need not be a major cause of concern (Pallant, 2007; Ghaesmi and Zahediasl, 2012). Elliott and Woodward (2007) argued that parametric procedures can be used despite data not being normally distributed. Moreover, Altman and Bland (1995) argued that when the sample contains hundreds of observations, then the researcher can ignore the normality assumption. Interestingly, Elliott and Woodward (2007),

suggested that despite the fact that the Central Limit Theorem itself suggests that a sample set, having 30 or higher observations, tends to be normal irrespective of the data shape, true normality is a myth and, therefore, normal Q-Q plots (visual normality) should be considered to ensure that data does not have serious deviations from normality (cited Ghasemi and Zahediasl, 2012). Indeed Haque *et al.*, (2017) have used Q-Q Plots for checking the normality assumption instead of relying on Shapiro-Wilk test, as their observations were in the hundreds. Since the present data has 408 observations, Haque *et al.*'s (2017) use of Q-Q plots is used for determining normality distribution.



#### Figure 5. 1: Bar diagrams for equal distribution in terms of economy, gender, and faculty

|       |       | Frequency | Percent | Valid Percent | Cumulative<br>Percent |
|-------|-------|-----------|---------|---------------|-----------------------|
| Valid | 1.0   | 204       | 50.0    | 50.0          | 50.0                  |
|       | 2.0   | 204       | 50.0    | 50.0          | 100.0                 |
|       | Total | 408       | 100.0   | 100.0         |                       |

 Table 5. 4: Country Proportion: 1=United Kingdom, 2=Pakistan

The above figure contains the bar diagrams reflecting all three main dimensions for considering the equal distribution of the population. "Country" is the first aspect in which equal normal distribution is targeted and, according to the selection strategy, included 50% of the respondents from the UK and 50% from Pakistan. Additionally, the above table revealed an attainment of equal frequency and percentages in each country (*See* table 5.4).

Table 5. 5: Gender proportion: 1=Male, 2=Females, 3=Prefer not to say

|       |       | Frequency | Percent | Valid Percent | Cumulative<br>Percent |
|-------|-------|-----------|---------|---------------|-----------------------|
| Valid | 1.0   | 204       | 50.0    | 50.0          | 50.0                  |
|       | 2.0   | 202       | 49.5    | 49.5          | 99.5                  |
|       | 3.0   | 2         | .5      | .5            | 100.0                 |
|       | Total | 408       | 100.0   | 100.0         |                       |

The table above confirms that the percentages in terms of gender are almost equal (Males=50% and Females=49.5%) (*See* table 5.5).

|       |       | Frequency | Percent | Valid Percent | Cumulative<br>Percent |
|-------|-------|-----------|---------|---------------|-----------------------|
| Valid | 1.0   | 204       | 50.0    | 50.0          | 50.0                  |
|       | 2.0   | 204       | 50.0    | 50.0          | 100.0                 |
|       | Total | 408       | 100.0   | 100.0         |                       |

Table 5. 6: Faculty: 1=Teaching Staff, 2=Non-teaching Staff

Third dimension is "faculty" in this study. The bar diagram reflects that there is an equal split (50% each) in teaching and non-teaching faculty. Additionally, the above table reflects that the frequency and percentage for both teaching and non-teaching staff are equally distributed (*See* table 5.6).

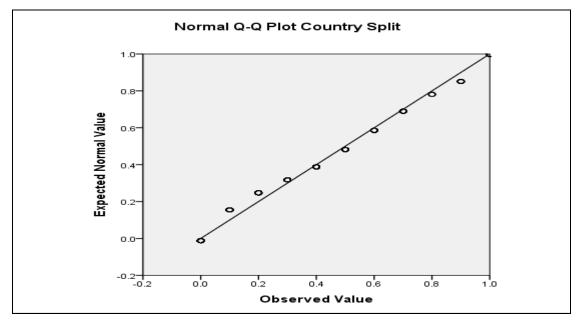
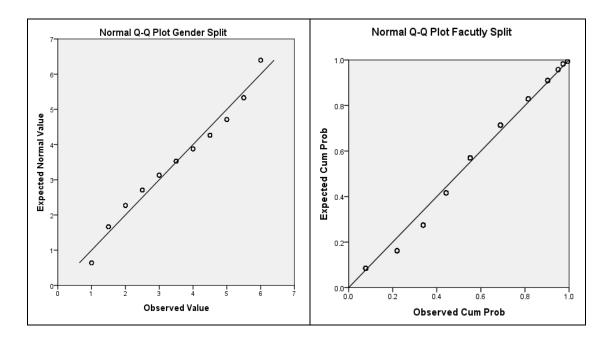


Figure 5. 2: Q-Q Plot for 'Economies'

From the above Q-Q plot, it is evident that the observed values are almost on the line. There are some traces of small deviation but largely they are aligned. Thus, this shows that the present data satisfies the assumption of normal distribution. In other words, considering countries, the data is normally distributed (*See* figure 5.2).



#### Figure 5. 3: Q-Q Plot for determining normality distribution in terms of gender and faculty.

Similarly, the Q-Q plot for gender and faculty was used to examine the normal distribution. As shown in the above figure, the observations are again close to the line (figure 5.2), confirming that gender and faculty both satisfy the normality distribution assumption.

The next step is determining the fitness of the model for Structural Equation Modeling (SEM). The two most powerful, statistical techniques are Confirmatory Factor Analysis (CFA) and Exploratory Factor Analysis (EFA) (Child, 1990; Kline, 1998). CFA is the first step to confirm that the factors developed through the measurement instrument are adequate (Child, 1990). In case the CFA technique does not confirm the factor structure, then EFA is the next step, as it enables the researchers to determine the factor structure in accordance with the responses of the participants (ibid). Gaskin (2012) argued that both CFA and EFA could be used for ensuring adequacy of measurement items. EFA determines the underlying construct for a set of measured items/variables (ibid). In SEM, different statistical tests are carried out for CFA in order to determine the adequacy of data model fit, namely: CFI, Chi-Square Test, RMSEA (ibid).

#### 5.2.3 Fitness of the model

| Table | 5. | 7: | Test | <b>Statistics</b> |
|-------|----|----|------|-------------------|
|-------|----|----|------|-------------------|

| $\chi^{2 \text{ value}}$ | Degree of Freedom | P value | AGFI  | AIC     | CFI   | GFI   | RMSEA |
|--------------------------|-------------------|---------|-------|---------|-------|-------|-------|
| 135.918                  | 4                 | 0.000   | 0.926 | 368.248 | 0.934 | 0.967 | 0.051 |

The above table demonstrates the fitness of the SEM model through the explanatory power of AGFI (Adjusted Goodness-of-Fit Index) and GFI (Goodness-of-Fit Index), as the value of both (AGFI=0.926 and GFI=0.967) are above 0.9, indicating that the model is a good fit because the indicating criteria is that the explanatory power should lie between 0 and 1 (Shigeno, 2017). In the present thesis, the explanatory power is close to 1 and, therefore, the model is adequate. Additionally, the RMSEA (Root Mean Square Error of Approximation) index shows the amount of freedoms divergence between the actual and estimated distribution of the model (Shigeno, 2017). The incurred value is 0.051. Since, the value of 0.10 or less is judged as good fitness thus, the result satisfies the RMSEA condition for good fit. Furthermore, the CFI (Comparative Fit Index) explains goodness-of-fit of the model, while assuming if there is no correlation among the observed variables then how much model has developed and got better in comparison with the estimated independent model (Shigeno, 2017). Again, the indicating

criteria is a value between the 0 and 1 for being good fit and, in this case, the CFI derived value is 0.934 and, therefore, it reflects that model is a good fit.

## **5.2.4 Chi-Square Tests**

In this section, the chi-square test explains the categorical data presented above, via proportional analysis, by considering three aspects, namely: economy, gender and faculty, in order to attain numerical significance regarding each distinctive attribute of the causes and consequences of stress.

|         |                |                  |                     | Causes of Stress          |                          |        |
|---------|----------------|------------------|---------------------|---------------------------|--------------------------|--------|
|         |                |                  | Personal<br>Factors | Organisational<br>Factors | Environmental<br>Factors | Total  |
| Country | United Kingdom | Count            | 61                  | 114                       | 29                       | 204    |
|         |                | Expected Count   | 69.5                | 101.5                     | 33.0                     | 204.0  |
|         |                | % within Country | 29.9%               | 55.9%                     | 14.2%                    | 100.0% |
|         | Pakistan       | Count            | 78                  | 89                        | 37                       | 204    |
|         |                | Expected Count   | 69.5                | 101.5                     | 33.0                     | 204.0  |
|         |                | % within Country | 38.2%               | 43.6%                     | 18.1%                    | 100.0% |
| Total   |                | Count            | 139                 | 203                       | 66                       | 408    |
|         |                | Expected Count   | 139.0               | 203.0                     | 66.0                     | 408.0  |
|         |                | % within Country | 34.1%               | 49.8%                     | 16.2%                    | 100.0% |

### Table 5. 8: Causes of Stress – Country

### Table 5. 9: Chi-Square Tests

|                              | Value | Df | Asymp. Sig. (2-sided) |
|------------------------------|-------|----|-----------------------|
| Pearson Chi-Square           | 6.128 | 2  | .047                  |
| Likelihood Ratio             | 6.143 | 2  | .046                  |
| Linear-by-Linear Association | .421  | 1  | .516                  |
| N of Valid Cases             | 408   |    |                       |

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 33.00.

|                    |            | Value | Approx. Sig. |
|--------------------|------------|-------|--------------|
| Nominal by Nominal | Phi        | .123  | .047         |
|                    | Cramer's V | .123  | .047         |
| N of Valid Cases   |            | 408   |              |

 Table 5. 10: Symmetric Measures

According to Pallant (2016), above 20% expected count violates the assumption and researchers should consider a 'Likelihood Ratio - sig-value' to determine results, whereas 20% or below reflects that the assumption is not violated and a Pearson Chi-Square sig-value should be considered for testing the hypothesis. Since 0% cells have less than 5 expected counts, the assumption, therefore, is not violated (See table 5.09). The Pearson Chi-square sig value is less than alpha (=.047 < 0.05,  $p < \alpha$ ), which indicates that results are statistically significant. In other words, the null hypothesis is rejected as there is no significant relationship between contrasting economies and types of stressors. Moreover, the types of stressors are dependent on the type of economies. In addition, Pallant (2016) explained that criteria for considering Symmetric Measures depend on the number of items; for 2X2 researchers should consider the Phi Value, whereas for 2X3 or above, Cramer's V should be taken into consideration. Since, in this study it is 2X3, Cramer's V is, therefore, considered to explain the effect. Hence, 0.123 indicates that contrasting economies have a small to moderate effect on the types of causes and the effect is significant (=.047 < 0.05,  $p < \alpha$ ) (See table 5.10). Thus, the present findings support Haque and Aston (2016) that there is a significant difference in the types of stressors affecting employees in contrasting economies.

Additionally, table 5.14 contains the proportion, which indicates that in the UK, organisational factors have scored higher than the expected counts (114 against 101.5), reflecting 55.9% in contrast to two other factors (personal factors=29.9% and environmental factors=14.2%) (*See* table 5.8). In Pakistan, organisational factors have a high proportion (43.6%), followed by personal factors (38.2%) and environmental factors (18.1%) (*See* table 5.8). Nevertheless, organisational factors emerge as a higher cause of stress in the UK than in Pakistan (55.9% against 43.6%). Conversely, Pakistan has higher mentions of personal factors (38.2% against 29.9%) and environmental factors (18.1% against 14.2%). Thus, to some extent, these findings support Haque and Aston (2016) and Haque *et al.*, (2018) but their findings were from the IT

sector of Pakistan and the UK, whereas the present results confirmed similar findings from the education sector of the two contrasting economies. Overall, organisational factors cause more stress to university employees; however, the types of stressors significantly differ for the two economies. We find that organisational factors cause more stress to the employees than do personal and environmental factors, supporting Haque *et al.*, (2016), while disconfirming Cicei (2012) and Fairbrother and Warn (2003) to a large extent. Nonetheless, the present findings confirmed that all these types of stressors exist and affect both teaching and administrative staff, supporting Stranks (2005).

|         |                | Consequences of Stress |             |          |           |           |        |
|---------|----------------|------------------------|-------------|----------|-----------|-----------|--------|
|         |                |                        | Behavioural | Physical | Cognitive | Emotional | Total  |
| Country | United Kingdom | Count                  | 44          | 61       | 29        | 70        | 204    |
|         |                | Expected Count         | 45.0        | 51.5     | 40.0      | 67.5      | 204.0  |
|         |                | % within Country       | 21.6%       | 29.9%    | 14.2%     | 34.3%     | 100.0% |
|         | Pakistan       | Count                  | 46          | 42       | 51        | 65        | 204    |
|         |                | Expected Count         | 45.0        | 51.5     | 40.0      | 67.5      | 204.0  |
|         |                | % within Country       | 22.5%       | 20.6%    | 25.0%     | 31.9%     | 100.0% |
| Total   |                | Count                  | 90          | 103      | 80        | 135       | 408    |
|         |                | Expected Count         | 90.0        | 103.0    | 80.0      | 135.0     | 408.0  |
|         |                | % within Country       | 22.1%       | 25.2%    | 19.6%     | 33.1%     | 100.0% |

Table 5. 11: Consequences of Stress – Country

 Table 5. 12: Chi-Square Tests

|                              | Value | Df | Asymp. Sig. (2-<br>sided) |
|------------------------------|-------|----|---------------------------|
| Pearson Chi-Square           | 9.784 | 3  | .020                      |
| Likelihood Ratio             | 9.883 | 3  | .020                      |
| Linear-by-Linear Association | .183  | 1  | .669                      |
| N of Valid Cases             | 408   |    |                           |

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 40.00.

|                    |            | Value | Approx. Sig. |
|--------------------|------------|-------|--------------|
| Nominal by Nominal | Phi        | .155  | .020         |
|                    | Cramer's V | .155  | .020         |
| N of Valid Cases   |            | 408   |              |

 Table 5. 13: Symmetric Measures

Following Pallant's (2016) criteria of validity assumption, the consequences of stress in contrasting economies are examined above. Again, 0% cells have less than 5 expected counts and, thus, the assumption is not violated; thus, the Pearson Chi-Square is taken into consideration instead of a Likelihood Ratio for testing the hypothesis (*See* table 5.12). The sigvalue of the Pearson Chi-square is less than alpha and, therefore, the results are statistically significant (=.020 < 0.05,  $p < \alpha$ ). Based on the evidence, a null hypothesis is rejected, as a significant relationship is established between differing consequences of stress in contrasting economies. Cramer's V confirmed a small to moderate effect of the contrasting economies on varying consequences of stress (=0.156). Additionally, the effect is significant (=.020 < 0.05,  $p < \alpha$ ). Therefore, the present findings report a striking difference to Haque *et al.*, (2018) because here it is evident that there is a statistically significant difference in the consequences faced by the employees in Pakistan and the UK.

Interestingly, in the UK, the expected count is less than that observed for emotional symptoms but the proportion is relatively high compared to the other symptoms, namely: physical, behavioural and cognitive (34.3% > 29.9% > 21.6% > 14.2%). On the other hand, the observed count for emotional symptoms is less than the expected count in Pakistan but the proportion (31.9%) is greater than the cognitive, behavioural and physical symptoms (25% > 22.5% > 20.6%). Overall, the emotional symptoms are high in both countries (33.1%), followed by physical symptoms (25.2%), behavioural symptoms (22.5%) and, lastly, cognitive symptoms (19.6%). Since, emotional symptoms, and physical symptoms, are the two most frequently occurring symptoms, to some extent, the present findings have a striking difference to Haque *et al.*, (2016) and Haque *et al.*, (2018) in this regard, while they partially support Mark and Smith (2018). However, all consequences in this study have been confirmed to some extent, which means that Stranks (2005) is again supported.

|          |                   |                |                     | Causes of Stress          |                          |        |
|----------|-------------------|----------------|---------------------|---------------------------|--------------------------|--------|
|          |                   |                | Personal<br>Factors | Organisational<br>Factors | Environmental<br>Factors | Total  |
| Category | Male              | Count          | 41                  | 118                       | 45                       | 204    |
|          |                   | Expected Count | 69.5                | 101.5                     | 33.0                     | 204.0  |
|          |                   | %              | 20.1%               | 57.8%                     | 22.1%                    | 100.0% |
|          | Female            | Count          | 98                  | 83                        | 21                       | 202    |
|          |                   | Expected Count | 68.8                | 100.5                     | 32.7                     | 202.0  |
|          |                   | %              | 48.5%               | 41.1%                     | 10.4%                    | 100.0% |
|          | Prefer not to say | Count          | 0                   | 2                         | 0                        | 2      |
|          |                   | Expected Count | .7                  | 1.0                       | .3                       | 2.0    |
|          |                   | %              | 0.0%                | 100.0%                    | 0.0%                     | 100.0% |
| Total    |                   | Count          | 139                 | 203                       | 66                       | 408    |
|          |                   | Expected Count | 139.0               | 203.0                     | 66.0                     | 408.0  |
|          |                   | %              | 34.1%               | 49.8%                     | 16.2%                    | 100.0% |

# Table 5. 14: Causes of Stress – Gender

Table 5. 15: Chi-Square Tests

|                              | Value  | Df | Asymp. Sig. (2-<br>sided) |
|------------------------------|--------|----|---------------------------|
| Pearson Chi-Square           | 40.348 | 4  | .000                      |
| Likelihood Ratio             | 41.926 | 4  | .000                      |
| Linear-by-Linear Association | 32.238 | 1  | .000                      |
| N of Valid Cases             | 408    |    |                           |

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .32.

| Table 5. 16: Svm | metric Measures |
|------------------|-----------------|
|------------------|-----------------|

|            | Value | Approx. Sig.                |
|------------|-------|-----------------------------|
| Phi        | .314  | .000                        |
| Cramer's V | .222  | .000                        |
|            | 408   |                             |
|            |       | Phi .314<br>Cramer's V .222 |

Since the expected count is higher than 20%, the assumption is violated and, as a result, the likelihood ratio is considered instead of the Person Chi-Square for hypothesis testing (*See* table 5.15). In terms of gender, the likelihood ratio is statistically significant (=0.000 < 0.05,  $p < \alpha$ ); hence, it indicates that there is strong evidence against a null hypothesis, as the results confirmed that the types of stressors vary for the contrasting genders. Cramer's V value reflects that the contrasting genders have a small to moderate effect on the types of stressors in the universities in both Pakistan and the UK (=0.22) (*See* table 5.16). Moreover, the effect of gender is statistically highly significant (=.000 < 0.05,  $p < \alpha$ ). Thus, this study confirms the previous work of Haque and Aston (2016) and Haque *et al.*, (2016): the causes of stress differ for males and females.

Interestingly, organisational factors have a high effect by gender in comparison with personal and environmental factors (49.8% > 34.1% > 16.2%). However, the proportional analysis revealed that organisational stressors cause more stress to males than to females (57% against 41%), whereas females, report to a greater extent that personal factors cause them higher stress (48.5% against 20.1%) (*See* table 5.14). This finding disconfirms Kumasay *et al.*, (2014) and Fairbrother and Warn (2003), while supporting Haque and Aston (2016) and Haque *et al.*, (2016), and are strikingly different to Cicei (2012) and of Fairbrother and Warn (2003).

Nevertheless, the existence of all types of stressors is confirmed in the university environment, which affect employees confirming Stranks (2005).

|          |                   |                | Consequences of Stress |          |           |           |        |
|----------|-------------------|----------------|------------------------|----------|-----------|-----------|--------|
|          |                   |                | Behavioural            | Physical | Cognitive | Emotional | Total  |
| Category | Male              | Count          | 72                     | 77       | 18        | 37        | 204    |
|          |                   | Expected Count | 45.0                   | 51.5     | 40.0      | 67.5      | 204.0  |
|          |                   | %              | 35.3%                  | 37.7%    | 8.8%      | 18.1%     | 100.0% |
|          | Female            | Count          | 18                     | 25       | 61        | 98        | 202    |
|          |                   | Expected Count | 44.6                   | 51.0     | 39.6      | 66.8      | 202.0  |
|          |                   | %              | 8.9%                   | 12.4%    | 30.2%     | 48.5%     | 100.0% |
|          | Prefer not to say | Count          | 0                      | 1        | 1         | 0         | 2      |
|          |                   | Expected Count | .4                     | .5       | .4        | .7        | 2.0    |

 Table 5. 17: Consequences of Stress – Gender

|       | %              | 0.0%  | 50.0% | 50.0% | 0.0%  | 100.0% |
|-------|----------------|-------|-------|-------|-------|--------|
| Total | Count          | 90    | 103   | 80    | 135   | 408    |
|       | Expected Count | 90.0  | 103.0 | 80.0  | 135.0 | 408.0  |
|       | %              | 22.1% | 25.2% | 19.6% | 33.1% | 100.0% |

Table 5. 18: Chi-Square Tests

|                              | Value    | Df | Asymp. Sig. (2-<br>sided) |
|------------------------------|----------|----|---------------------------|
| Pearson Chi-Square           | 112.402ª | 6  | .000                      |
| Likelihood Ratio             | 119.045  | 6  | .000                      |
| Linear-by-Linear Association | 84.937   | 1  | .000                      |
| N of Valid Cases             | 408      |    |                           |

a. 4 cells (33.3%) have expected count less than 5. The minimum expected count is .39.

| Table 5. | 19: | Symmetric | Measures |
|----------|-----|-----------|----------|
|----------|-----|-----------|----------|

|                    |            | Value | Approx. Sig. |
|--------------------|------------|-------|--------------|
| Nominal by Nominal | Phi        | .525  | .000         |
|                    | Cramer's V | .371  | .000         |
| N of Valid Cases   |            | 408   |              |

The Chi-Square tests revealed that the assumption is violated and, thus, Pallant's (2016) argument is considered by taking the Likelihood ratio into consideration for testing the hypothesis because the expected count has exceeded 20% (Table 5.18). The sig-value is less than the alpha and, therefore, statistically there is strong evidence against a null hypothesis (=0.000 < 0.05,  $p < \alpha$ ). The consequences of stress is thus found to differ between males and females in both countries, disconfirming Haque and Aston (2016), Haque *et al.*, (2016) and Haque *et al.*, (2018) which suggested that the consequences of stress do not vary for males and females.

Cramer's V value indicates that gender has a small to moderate effect on the consequences of stress (=0.371). Moreover, the sig-value is lower than the alpha value and, hence, it is confirmed that the effect is significant (=0.000 < 0.05,  $p < \alpha$ ).

It is evident that males report a high level of physical symptoms (37.7%) and behavioural symptoms (35.3%) attributed to stress, while females exhibit emotional (48.5%) and cognitive (30.2%) symptoms. Taking into account each symptom, it is evident that males, in contrast to females, exhibit a higher level of physical symptoms (37.7% against 12.4%) and behavioural symptoms (35.3% against 8.8%), whereas they exhibit lower emotional symptoms (18.1% against 48.5%) and cognitive symptoms (8.8% against 30.2%). Overall, both the physical and psychological effects of stress are evident in this study supporting Stranks (2005), Haque and Aston (2016), Haque *et al.*, (2016), Haque *et al.*, (2018) and Mark and Smith (2018).

|          |              |                | Causes of Stress    |                           |                          |        |
|----------|--------------|----------------|---------------------|---------------------------|--------------------------|--------|
|          |              |                | Personal<br>Factors | Organisational<br>Factors | Environmental<br>Factors | Total  |
| Category | Teaching     | Count          | 58                  | 128                       | 18                       | 204    |
|          |              | Expected Count | 69.5                | 101.5                     | 33.0                     | 204.0  |
|          |              | %              | 28.4%               | 62.7%                     | 8.8%                     | 100.0% |
|          | Non-teaching | Count          | 81                  | 75                        | 48                       | 204    |
|          |              | Expected Count | 69.5                | 101.5                     | 33.0                     | 204.0  |
|          |              | %              | 39.7%               | 36.8%                     | 23.5%                    | 100.0% |
| Total    |              | Count          | 139                 | 203                       | 66                       | 408    |
|          |              | Expected Count | 139.0               | 203.0                     | 66.0                     | 408.0  |
|          |              | %              | 34.1%               | 49.8%                     | 16.2%                    | 100.0% |

Table 5. 20: Causes of Stress – Faculty

Table 5. 21: Chi-Square Tests

|                              | Value   | Df | Asymp. Sig. (2-<br>sided) |
|------------------------------|---------|----|---------------------------|
| Pearson Chi-Square           | 31.280ª | 2  | .000                      |
| Likelihood Ratio             | 31.972  | 2  | .000                      |
| Linear-by-Linear Association | .255    | 1  | .614                      |
| N of Valid Cases             | 408     |    |                           |

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 33.00.

|                    |            | Value | Approx. Sig. |
|--------------------|------------|-------|--------------|
| Nominal by Nominal | Phi        | .277  | .000         |
|                    | Cramer's V | .277  | .000         |
| N of Valid Cases   |            | 408   |              |

 Table 5. 22: Symmetric Measures

Table 5.20 shows an expected count less than 20% and, hence, the assumption is met, and the Pearson Chi-Square will be considered for testing the analysis. The sig-value is less than the alpha value and, therefore, there is statistically strong evidence against a null hypothesis (=0.000 < 0.05,  $p < \alpha$ ). In other words, the causes of stress vary for teaching and administrative staff. The Cramer's V value supports this, so we have strong evidence against a null hypothesis, and confirmation that the types of stressors vary by gender. Cramer's V value reflects that a small to moderate effect is confirmed among the variables of interest (=0.27) and the effect is statistically significant (=.000 < 0.05,  $p < \alpha$ ). This is a new finding which to some extent supports Sackey and Sanda (2008), Sackey and Sanda (2011), Haque and Aston (2016), Haque *et al.*, (2016), and Haque *et al.*, (2018).

A detailed analysis was carried out to assess the variation of stressors in the proportions within the contrasting faculties. Table 5.20 shows that teaching staff, in contrast to administrative staff, are most frequently affected by organisational stressors (62.7% against 36.8%), while personal factors cause higher stress to administrative staff (39.7%). Interestingly, non-teaching staff, are comparatively more highly affected by environmental factors (23.5% against 8.8%). There is no conclusive evidence from previous studies which evaluated different causes of stress among teaching and non-teaching staff; however, as academics are more involved in conceptual work while administrators are more involved in operational tasks, the study, to some extent, supports Sackey and Sanda (2008), Sackey and Sanda (2011), Haque and Aston (2016), Haque *et al.*, (2016), Haque and Oino (2017), Haque *et al.*, (2018). Since all types of stressors are reported in the universities, our findings also confirm Kumasey *et al.*, (2014), Stranks (2005), and Fairbrother and Warn (2003) who argue similarly.

|            |              | Consequences of Stress |             |          |           |           |        |
|------------|--------------|------------------------|-------------|----------|-----------|-----------|--------|
|            |              |                        | Behavioural | Physical | Cognitive | Emotional | Total  |
| Categories | Teaching     | Count                  | 53          | 36       | 42        | 73        | 204    |
|            |              | Expected Count         | 45.0        | 51.5     | 40.0      | 67.5      | 204.0  |
|            |              | %                      | 26.0%       | 17.6%    | 20.6%     | 35.8%     | 100.0% |
|            | Non-teaching | Count                  | 37          | 67       | 38        | 62        | 204    |
|            |              | Expected Count         | 45.0        | 51.5     | 40.0      | 67.5      | 204.0  |
|            |              | %                      | 18.1%       | 32.8%    | 18.6%     | 30.4%     | 100.0% |
| Total      |              | Count                  | 90          | 103      | 80        | 135       | 408    |
|            |              | Expected Count         | 90.0        | 103.0    | 80.0      | 135.0     | 408.0  |
|            |              | %                      | 22.1%       | 25.2%    | 19.6%     | 33.1%     | 100.0% |

 Table 5. 23: Consequences of Stress – Faculty

 Table 5. 24: Chi-Square Tests

|                              | Value   | Df | Asymp. Sig. (2-<br>sided) |
|------------------------------|---------|----|---------------------------|
| Pearson Chi-Square           | 13.271ª | 3  | .004                      |
| Likelihood Ratio             | 13.433  | 3  | .004                      |
| Linear-by-Linear Association | .183    | 1  | .669                      |
| N of Valid Cases             | 408     |    |                           |

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 40.00.

Table 5. 25: Symmetric Measures

|                    |            | Value | Approx. Sig. |
|--------------------|------------|-------|--------------|
| Nominal by Nominal | Phi        | .180  | .004         |
|                    | Cramer's V | .180  | .004         |
| N of Valid Cases   |            | 408   |              |
|                    |            |       |              |

As the expected count is less than 20%, the Pearson Chi-Square is considered for testing the hypothesis instead of a Likelihood Ratio. Interestingly, the sig-value is less than the alpha (=0.004 < 0.05,  $p < \alpha$ , Table 5.24). Thus, there is strong evidence against the null hypotheses

that consequences of stress do not differ for teaching and administrative staff in contrasting economies. Additionally, Cramer's V value revealed that the effect is small to medium (=0.18) and it is significant (=0.004 < 0.05,  $p < \alpha$ ). Hence, the consequences of stress vary for teaching and non-teaching staff working at universities in Pakistan and the UK. Again, there is no direct evidence regarding the differing consequences for teaching and non-teaching staff but considering the distinctive faculties, the types of effect reported do differ confirming Haque and Aston (2016), Haque *et al.*, (2016), Haque and Oino (2017) and Haque *et al.*, (2018).

The consequences of stress vary for teaching and non-teaching staff (Table 5.23). It is evident that emotional symptoms are reported at a slightly higher among the teaching staff than by administrative staff (35.8% against 30.4%). Interestingly, non-teaching staff also report physical symptoms in greater proportions (32.8% against 17.6%). Moreover, behavioural and cognitive symptoms are reported at higher rates among teaching staff compared with administrative staff (26.0% against 18.1%) and (20.6% against 18.8%) respectively.

Overall, emotional symptoms are higher than the other symptoms. Nevertheless, psychological, and physiological symptoms, are evident supporting Stranks (2005) and Mark and Smith (2018).

When considering all three dimensions for causes and consequences of stress, the present study found marginally significant different causes of stress in the two countries, whereas thethe differences are highly significantly between males and females. It is also evident that the reported consequences of stress are highly statistically significant in terms of gender, while also statistically significant in terms of both the country and staff categories.

#### **5.2.5 Exploratory Factor Analysis**

Table 5. 26: KMO and Bartlett's Test

| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. |                    | .813     |
|--|--------------------|----------|
| Bartlett's Test of Sphericity                    | Approx. Chi-Square | 5926.718 |
|  | Df                 | 231      |
|  | Sig.               | .000     |

Using the dimension reduction option through SPSS, the items on the scale were checked to ensure the underlying construct for a set of measured variables. The obtained KMO value is 0.813, which is greater than 0.7, reflecting good sampling adequacy. Furthermore, the

extractions of communalities through maximum likelihood were checked as the second step in the process. According to Gaskin and Happell (2014), the extraction values above 0.3 indicate a good likelihood, whereas the aggregate of matrix patterns for each factor scoring over 0.7 indicate the adequacy and reliability towards goodness-of-fit.

|   | Initial | Extraction |
|---|---------|------------|
| Rate Occupational Therapist Representation  | .761    | .784       |
| Rate Occupational Therapist Representation at University                              | .853    | .943       |
| Impact of Occupational Therapist in Sustenance of Human Capital                       | .831    | .862       |
| Occupational therapist offers solutions to improves working efficiency                | .876    | .957       |
| Occupational therapist address concerns to improve organisational commitment]         | .847    | .869       |
| Occupational therapist counselling is effective in reducing different types of stress | .785    | .798       |
| Personal Strain – I   | .610    | .531       |
| Personal Strain II  | .499    | .541       |
| Personal Strain III   | .547    | .589       |
| Perceived Job Stress I  | .586    | .553       |
| Perceived Job Stress II   | .523    | .453       |
| Perceived Job Stress III  | .582    | .633       |
| Affective Commitment – I  | .638    | .776       |
| Affective Commitment II   | .545    | .547       |
| Normative Commitment I  | .488    | .488       |
| Normative Commitment II   | .543    | .675       |
| Continuance Commitment I  | .510    | .579       |
| Continuance Commitment II   | .512    | .477       |
| Personal Resources I  | .624    | .664       |
| Personal Resources II   | .621    | .694       |
| Social Support I  | .588    | .649       |
| Social Support II   | .546    | .420       |

Extraction Method: Maximum Likelihood.

Since all of the extractive values are over 0.3, this reflects that under the communalities' aspect, the measurement variables have met the likelihood criteria. The next step is assessing the

cumulative percentage of the extracted items in order to measure the total variance explained by how many items are considered on the scale.

|        |       | Initial Eigenvalues Extraction Sums of Squared Loadings |              |       |               | Rotation<br>Sums of<br>Squared<br>Loadings <sup>a</sup> |       |
|--------|-------|---|--------------|-------|---------------|---|-------|
| Factor | Total | % of Variance   | Cumulative % | Total | % of Variance | Cumulative %  | Total |
| 1      | 5.351 | 24.324  | 24.324       | 4.718 | 21.446        | 21.446  | 3.480 |
| 2      | 4.331 | 19.687  | 44.011       | 1.241 | 5.641         | 27.087  | 3.565 |
| 3      | 2.654 | 12.065  | 56.076       | 3.790 | 17.226        | 44.313  | 3.656 |
| 4      | 1.627 | 7.394   | 63.470       | 2.711 | 12.323        | 56.636  | 3.812 |
| 5      | 1.328 | 6.036   | 69.506       | 1.297 | 5.898         | 62.534  | 2.944 |
| 6      | 1.114 | 5.066   | 74.572       | .726  | 3.300         | <mark>65.834</mark>                                     | 2.635 |
| 7      | .899  | 4.086   | 78.658       |       |               |   |       |
| 8      | .639  | 2.904   | 81.562       |       |               |   |       |
| 9      | .608  | 2.765   | 84.327       |       |               |   |       |
| 10     | .517  | 2.348   | 86.675       |       |               |   |       |
| 11     | .462  | 2.102   | 88.777       |       |               |   |       |
| 12     | .362  | 1.645   | 90.421       |       |               |   |       |
| 13     | .339  | 1.543   | 91.964       |       |               |   |       |
| 14     | .301  | 1.368   | 93.332       |       |               |   |       |
| 15     | .264  | 1.202   | 94.534       |       |               |   |       |
| 16     | .254  | 1.157   | 95.690       |       |               |   |       |
| 17     | .229  | 1.042   | 96.732       |       |               |   |       |
| 18     | .211  | .960  | 97.693       |       |               |   |       |
| 19     | .182  | .827  | 98.520       |       |               |   |       |
| 20     | .155  | .706  | 99.227       |       |               |   |       |
| 21     | .092  | .418  | 99.644       |       |               |   |       |
| 22     | .078  | .356  | 100.000      |       |               |   |       |
| ي ب ا  |       | Maximum Likelil   | l            |       |               |   |       |

 Table 5. 28: Total Variance Explained

Extraction Method: Maximum Likelihood.

a. When factors are correlated, sums of squared loadings cannot be added to obtain a total variance.

The above table reflects that the cumulative percentage for six items indicates 65% of the items. According to Gaskin and Happell (2014), 50% is the minimum required in order to confirm that the items on the scale are explaining the factors. As evident, the above table reflects 65.83% and, therefore, this indicates that the total variance is explained by the items on the scale. Additionally, the correlation table reflects that the non-redundant residuals for 22 items are 4.0% (0.04), which is less than 0.05 (*See* Appendix C). The correlation is well within the adequacy requirements.

Lastly, the pattern matrix was evaluated and the results revealed that the sum of each considered factor scored over 0.7 indicating that the factors are adequate in explaining the variance (*ee* Appendix C).

#### **5.2.6 Partially Recursive Model**

The endogenous (dependent) variables in this study are organisational commitment, affective commitment, normative commitment and continuance commitment, whereas the exogenous variables in questions are: personal strain, personal resources, perceived job stress, social support and role/effectiveness of the occupational therapist. The reason that the present model is categorized as a partially recursive model is because all of the causal effects are multi-directional and correlated but there is no direct effect among the endogenous variables. In other words, the independent variables have covariance, and having directional path, but there is no direct effect of one dependent variable on the other dependent variables. Below is the model drawn by using AMOS SPSS:

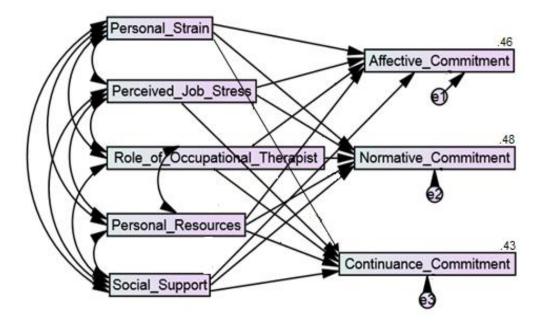


Figure 5. 4: Partially Recursive Model demonstrating the relationship.

The above figure represents the causal effect of the multivariable on the antecedents of organisational commitment (affective, normative and continuance commitment). In other words, it is the multiple linear regressions with different "variables in question" affect the dependent variables. Moreover, the variables show a direct impact on each other and cause an indirect effect on the dependent variables.

For instance, personal strain has a direct effect on perceived job stress, the role of occupational therapist, personal resources and social support, while through these all of the variables in question have an indirect effect on affective commitment, normative commitment and continuance commitment. Similarly, all other variables have a direct effect on the other "variables in question" and an indirect affect through "variables in question" on the dependent variables (AC, NC and CC). The above figure also reflects that a 46% variability in affective commitment is explained by the variability in the number of exogenous variables (R2=0.46). Moreover, the variability/differences explained by the model through exogenous variables for the variability in the normative commitment is 48% ( $R^2$ =0.48), whereas the 43% variability in continuance commitment is explained by the differences in the model ( $R^2$ =0.43).

In order to assess the total effect of each exogenous variable on the individual endogenous variables, the following formula is used for the calculation:

$$Y1n = \beta a + (\beta b \mathbf{X} \beta c)$$

Thus, below the formula for one exogenous variable, "personal strain", is stated to explain the calculation, whereas the rest of the formulae are presented in Appendix B.

*Total Effect of Personal Strain on AC through perceived job stress:*  $Y1a_1 = \beta 1 + (\beta 2 X \beta 3)$ 

Total Effect of Personal Strain on AC through role of OT:  $Y1b_1 = \beta 1 + (\beta 4 \times \beta 5)$ 

Total Effect of Personal Strain on AC through personal resources:  $Y1c_1 = \beta 1 + (\beta 6 X \beta 7)$ 

*Total Effect of Personal Strain on AC through social support:*  $Y1d_1 = \beta 1 + (\beta 8 \times \beta 9)$ 

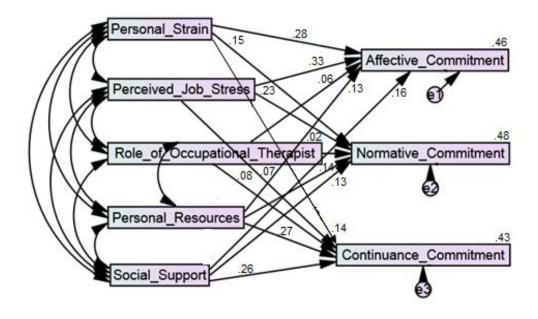


Figure 5. 5: The directional path of direct effect of exogenous variables on endogenous variables.

The above figure reflects the regression of the exogenous variables on the endogenous variables. As evidenced, the personal strain has 0.28 regression on the AC, which is a direct effect ( $\beta$ 1=0.28) but personal strain is interlinked with other exogenous variables too, indicating that personal strain has 0.68 direct effect on perceived job stress ( $\beta$ 2=0.68) and perceived job stress also has a 0.33 direct effect on affective commitment ( $\beta$ 3=0.33). Hence, the indirect effect of personal strain on affective commitment is 0.22 ( $\beta$ 2 X  $\beta$ 3). Considering only personal strain, the total effect on the affective commitment is 0.50. [*Y*1*a*<sub>1</sub>= $\beta$ 1+ ( $\beta$ 2 X  $\beta$ 3)]. However, the indirect effect of personal strain via the role of the occupational therapist is 0.016 ( $\beta$ 4 X  $\beta$ 5), while the total effect of personal strain through the role of the occupational therapist on affective commitment is 0.29 [ $\beta$ 1 + ( $\beta$ 4 X  $\beta$ 5), *See* Appendix B for further details]. The indirect effect of personal strain via personal resources is 0.32 [ $\beta$ 1 + ( $\beta$ 6 X  $\beta$ 7), *See* Appendix B]. Lastly, the indirect

effect of personal strain through social support is 0.014, while the total effect via it is 0.29 [ $\beta$ 1 + ( $\beta$ 8 X  $\beta$ 9), *See* Appendix B]. Hence, the sum of the standardized total effect of personal strain on the AC is 0.288, which is also evident in the table 10 as a standardized estimate (*See* Appendix B).

Personal strain also has a direct and indirect effect on normative commitment. The direct effect is 0.15 on NC, while the indirect effect is 0.156 and total direct effect is 0.30 via perceived job stress (See Appendix B). Moreover, personal strain's indirect effect on NC via the role of the occupational therapist is 0.005 and the total effect is 0.155 (See Appendix B). The indirect effect via personal resources is 0.05 and the direct effect is 0.20 (See Appendix B). Lastly, via social support, personal strain effects indirectly NC 0.011 and the total effect is 0.16 (See Appendix B). Thus, the standardized total effect of personal strain on NC is 0.148. Similarly, personal strain has both a direct and indirect effect on continuance commitment. The direct effect on CC is 0.047, while via perceived job stress it is 0.16 and, therefore, the total effect of personal strain on CC is 0.18 (See Appendix B). Through the role of the occupational therapist, the indirect effect of personal strain on CC is 0.02, while the total direct effect is 0.166 (See Appendix B). Furthermore, via personal resources, the indirect effect of personal strain on CC is 0.102 and the total direct effect is 0.24 (See Appendix B). Moreover, through social support, the indirect effect is 0.024 and the total direct effect of personal strain on continuance commitment is 0.16, whereas the standardized total effect of personal strain on CC is 0.146 (See Appendix B).

In a similar manner, the direct, indirect and total effect of all of the exogenous variables (personal strain, perceived job stress, role of occupational therapist, personal resources and social support) on AC, NC and CC has been determined in the partially recursive model and results showed that the range of these variables' standardized total effect lies between 0.03 to 0.267 (*See* Appendix B). These values are also shown under the standardized estimates in table 5.10. Thus, considering the totality aspect, all of the variables in question affect the endogenous variables to some extent. Interestingly, in this model, some of the exogenous variables are predictors, and the outcome, indicating a mediating role. Hence, mediation is also determined in this research. Interestingly, the total effect of the predictors is higher on AC in comparison to NC and CC. The majority of the variables  $\beta_n$ , after inclusion of the error (e<sub>n</sub>), become non-significant, which reflects partial mediation. Some of such variables are personal strain via perceived job stress and the role of the occupational therapist in relation to AC, while perfect mediation is evident for personal strain via personal resources and social support in relation to

AC (*see* Appendix B). Nevertheless, both partial and perfect mediation being among the variables indicates that the considered partially recursive model confirms previous empirical research to a certain extent, such as House, 1981; Hurlbert, 1991; Schwarzer and Leppin (1991); Park *et al.*, 2004; Mark and Smith (2008), Sackey and Sanda, 2011; Kumasey *et al.*, 2014; Haque and Yamoah (2014), Haque and Aston (2016); Haque *et al.*, (2016), Haque and Oino (2017), and Haque *et al.*, (2018) by confirming that there is correlation, and a total effect of exogenous variables on the endogenous variables.

|                        |   |                                | Estimate | S.E. | C.R   | Р     |
|------------------------|---|--------------------------------|----------|------|-------|-------|
| Affective Commitment   | < | Personal Strain                | .228     | .070 | 3.257 | * * * |
| Affective Commitment   | < | Perceived Job Stress           | .267     | .070 | 3.814 | ***   |
| Affective Commitment   | < | Role of Occupational Therapist | .071     | .042 | 1.690 | .293  |
| Affective Commitment   | < | Personal Resources             | .137     | .065 | 2.107 | .017  |
| Affective Commitment   | < | Social Support                 | .146     | .066 | 2.215 | .039  |
| Normative Commitment   | < | Personal Strain                | .148     | .059 | 2.508 | .011  |
| Normative Commitment   | < | Perceived Job Stress           | .224     | .059 | 3.796 | ***   |
| Normative Commitment   | < | Role of Occupational Therapist | .033     | .036 | .691  | .909  |
| Normative Commitment   | < | Personal Resources             | .157     | .055 | 2.854 | .018  |
| Normative Commitment   | < | Social Support                 | .124     | .056 | 2.214 | ***   |
| Continuance Commitment | < | Personal Strain                | .146     | .057 | 2.587 | .030  |
| Continuance Commitment | < | Perceived Job Stress           | .066     | .051 | 1.294 | .126  |
| Continuance Commitment | < | Role of Occupational Therapist | .098     | .069 | 1.420 | .194  |
| Continuance Commitment | < | Personal Resources             | .224     | .060 | 3.733 | ***   |
| Continuance Commitment | < | Social Support                 | .256     | .061 | 4.196 | ***   |
| * <i>p</i> <0.05       |   |                                |          |      |       |       |

Table 5. 29: Critical Ratio and standardized path estimates

The next step was the extraction of the model by viewing the standardized and unstandardized results of the exogenous variables in relation to the endogenous variables. Since, AMOS gives two separate tables by giving the standardized estimates separately, while the unstandardized estimates with the standard error (S.E), critical ratio (C.R) and P-value, the researcher, therefore, replaced the standardized estimates with the unstandardized ones in order to explain

the results from one table. The t-value is 1.96 is a cut-off value and using Gaskin's (2012) steps, the researcher explained the derived value by dividing the standard estimates by the standard error (S.E.) in order to obtain the critical ratio (C.R). A critical value greater than 1.96 reflects a significant relationship between the variables of interest (Gaskin, 2012). Personal strain highly significantly affects overall affective commitment (p-value =0.0000 < 0.05,  $p < \alpha$ ; Table 5.29). Moreover, personal strain has a significant impact on overall normative commitment (=0.011,  $p < \alpha$ ; Table 5.29) and continuance commitment (=0.030,  $p < \alpha$ ; Table 5.29). Since the critical ratio for all three antecedents of organisational commitment are positive and greater than the t-value, there is, therefore, a positive link between the variables of interest (C.R<sub>A</sub>> t-value, 3.257 > 1.96, C.R<sub>B</sub> = 2.508 > 1.96, and C.R<sub>C</sub> =2.587 > 1.96; Table 5.11). Thus, this study confirms the earlier work of Haque and Aston (2016) that personal strain affects the organisational commitment of employees, whereas it partially supports the notion of Brannon and Feist (1992) and Sackey and Sanda (2011) that personal strain exists in organisational settings affecting the commitment of the employees in a varying manner.

Perceived job stress is another variable in relation to the antecedents of organisational commitment considered in this research. The results revealed that, statistically, it has a highly significant effect on the affective commitment (=0.0000,  $p < \alpha$ ; Table 5.29) and normative commitment (=0.030,  $p < \alpha$ ) while non-significant impact on the continuance commitment of the university staff (=0.126,  $p > \alpha$ ). Furthermore, the critical ratio for AC (C.R<sub>D</sub>> t-value, 3.814 > 1.96) and NC (C.R<sub>E</sub> > t-value, 3.796 > 1.96; Table 5.29) hence these antecedents have positive linkage with perceived job stress. Interestingly, present findings indicate that the continuance commitment is not affected by the perceived job stress hence this has strikingly different from the recent work of Gok, Akgunduz, and Alkan (2017). Conversely, the present findings support van Zyl *et al.*, (2013), in terms of affective commitment, and Zehra *et al.*, (2017) when considering normative commitment. Nevertheless, both the aforementioned studies were carried out in the healthcare sector, while the present findings offer the same evidences from the education sector in contrasting economies.

The effect of the role of the occupational therapist on the dimensions of organisational commitment in the public universities of Pakistan and the UK was examined in this study. Interestingly, the results revealed that it has no statistically significant impact on AC (=0.1690,  $p > \alpha$ ; Table 5.29), NC (=0.691,  $p > \alpha$ ; Table 5.11), and CC (=0.194,  $p > \alpha$ ; Table 5.29). Thus, this study partially opposes Haque and Aston (2016) which states that the role of the occupational therapist is significant in determining the organisational commitment of

employees. Nonetheless, Haque and Aston (2016) was related to the IT sector, whereas present findings are from the education sector. Additionally, the present findings support Haque and Aston (2016) and Haque *et al.*, (2016) to a large extent in that there are low traces of the effectiveness and use of the professional occupational therapist from developing economies in contrast to developed ones.

Personal resources interlinked with organisational commitment, were examined in this study and results revealed that, it has highly statistically significant effect on the CC (=0.000,  $p < \alpha$ ; Table 5.29), whereas it has a significant positive effect on the AC (=0.017,  $p < \alpha$ ; Table 5.29) and NC (=0.018,  $p < \alpha$ ; Table 5.11). Furthermore, the critical ratio of the three distinctive attributes of organisational commitment is again shown to be positive and greater than the tvalue (C.R<sub>J</sub> > t-value, 2.107 > 1.96, C.R<sub>K</sub> = 2.854 > 1.96, and C.R<sub>L</sub> =3.733 > 1.96). Therefore, the results confirm that there is a positive linkage between the considered variables. The present findings partially support Schwarzer and Leppin (1991) and Sackey and Sanda (2011). Interestingly, the findings support Haque and Aston (2016) in terms of personal resources significantly affecting normative and continuance commitment but differ from the authors' finding of personal resources having no significant role in improving the affective commitment of the employees.

The results revealed that social support affects the antecedents of organisational commitment of university staff in the UK and Pakistan significantly. As evident, social support significantly affects AC (=0.039,  $p < \alpha$ ; Table 5.29), whereas highly statistically significant affects NC (=0.0000,  $p < \alpha$ ; Table 5.10), and CC (=0.000,  $p < \alpha$ ; Table 5.29). Additionally, the results also revealed that the critical ratio for the respective dimensions of organisational commitment, namely: AC, NC and CC are positive, and greater than the t-value and, thus, it shows that there is a positive linkage between the variables of interest (C.R<sub>M</sub> > t-value, 2.215 > 1.96, C.R<sub>N</sub> = 2.214 > 1.96, and C.R<sub>0</sub> =4.196 > 1.96; Table 5.29). The present findings support, to a large extent, Haque and Aston (2016), Haque *et al.*, (2017), Zehra *et al.*, (2017), Zehra and Faizan (2017), Haque and Oino (2017), Haque *et al.*, (2018), while partially supporting Sackey and Sanda (2011), Cicei (2012), and Kumasay *et al.*, (2014).

However, the above partially recursive model and SEM provided significant findings about the multivariate but the present study is relatively complex in nature, as it also contains categorical data and distinctive dimensions, such as economy, gender, faculty, types of stressors causing stress and types of consequences because of those stressors. For this reason, the researcher, instead of relying on one technique, has used several different tools and techniques to

investigate the variables of interest. The above test did not reflect the causes and consequences of stress, while which is also one of the most important objectives of this research to be evaluated. Hence, a different approach is used by the researcher.

#### **5.2.7 Proportional Analysis**

The causes and consequences of stress identified earlier by Stranks (2005) and later explored by Haque and Aston (2016), Haque *et al.*, (2017), Nair *et al.*, (2017), Zehra and Faizan (2017), and Haque *et al.*, (2018), were examined and presented through proportional analysis (bar diagram and percentages) to give an overall outlook.

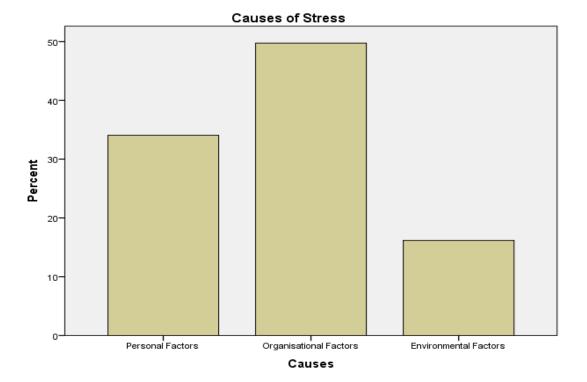


Figure 5. 6: Bar diagram containing proportions of causes of stress.

|       |                        | Frequency | Percent | Valid Percent | Cumulative<br>Percent |
|-------|------------------------|-----------|---------|---------------|-----------------------|
| Valid | Personal Factors       | 139       | 34.1    | 34.1          | 34.1                  |
|       | Organisational Factors | 203       | 49.8    | 49.8          | 83.8                  |
|       | Environmental Factors  | 66        | 16.2    | 16.2          | 100.0                 |
|       | Total                  | 408       | 100.0   | 100.0         |                       |

The above figure and table reflect that, overall, organisational factors most frequently cause stress to university staff in both the UK and Pakistan. As is demonstrated above, an overall 49.8% of the total number of respondents identified organisational stressors, followed by personal stressors and lastly environmental factors as causes of stress (*See* table 5.30). Thus, this study supports Haque *et al.*, (2018) to a certain extent.

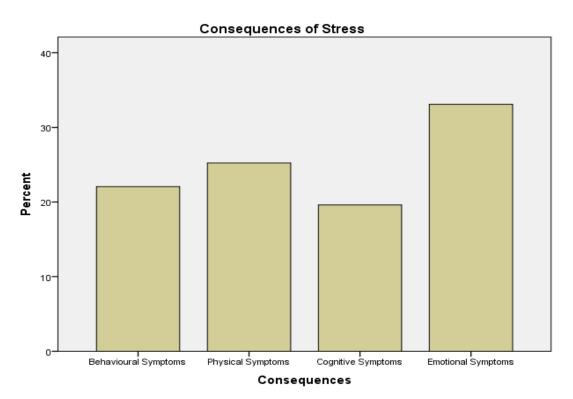


Figure 5. 7: Bar diagram containing proportions of consequences of stress.

|       |                      | Frequency | Percent | Valid Percent | Cumulative<br>Percent |
|-------|----------------------|-----------|---------|---------------|-----------------------|
| Valid | Behavioural Symptoms | 90        | 22.1    | 22.1          | 22.1                  |
|       | Physical Symptoms    | 103       | 25.2    | 25.2          | 47.3                  |
|       | Cognitive Symptoms   | 80        | 19.6    | 19.6          | 66.9                  |
|       | Emotional Symptoms   | 135       | 33.1    | 33.1          | 100.0                 |
|       | Total                | 408       | 100.0   | 100.0         |                       |

Table 5. 31: Consequences of stress

From the above figure and table, it is evident that the most frequently occurring symptoms experienced by university staff of the UK and Pakistan, when experiencing stress, are emotional symptoms. Hence, it is clear that emotional consequences are the highest (33.1%),

followed by physical symptoms (25.2%), behavioural symptoms (22.1%) and, finally, cognitive symptoms (19.6%) (*See* table 5.31). However, the above analysis conveyed the general idea about the commonly causing stressor and type of consequences, but it does not reflect the variation in terms of considered dimensions. Thus, the chi-square test is used as the next step in this research.

#### 5.2.8 Multiple Regression

According to Nachtigall et al., (2003), latent variables are additional benefit of the SEM for the researchers from the field of psychology when investigating individual subjects, but the major issue is that estimation contains severe problems, such as factor scores might have incurred in an ambiguous way. various authors argued that in the comparisons of standing on factor score, the model does not offer more than factor score estimates (Jöreskog, 2001; Raykov and Penev, 2002; Nachtigall et al., 2003). Interestingly, Kariminalayer and Anuar (2012) argued that multiple regressions are one of the finest approaches for determining the relationship between dependent (X) and independent variables (Y) through a variance predictor in an interval variable. Furthermore, more than one explanatory variable reflects multiple regression (ibid). On the other hand, one of the few drawbacks of SEM is that it neglects substantive background, complexity of theory and application, risk of producing models post hoc and has a higher focus on the size effect (Nachtigall et al., 2003). Additionally, in SEM, the significance of parameters is not the main interest; effect size is given more consideration such as 200 is the minimum sample size for lower bound to attain results (ibid). On the other hand, Cleophas et al., (2000) argued that multiple regressions are highly effective for subgroups to measure the impact of independent variables on a dependent variable.

Since, in this research, sub-groups were formed in terms of economy, faculty and gender, the size of the total sample reduces, which indicates that the lower bound is over 200 but variations in predictors within sub-groups may vary and, thus, the multiple regression is considered in this study to further evaluation. In other words, the SEM gave the overall holistic picture, but the further sub-group divisions required using another technique for measuring the impact of the variables in question on the dependent variables.

**5.2.8.1 Predictors and organisational commitment's antecedents - Contrasting economies** For the purpose of analysis, the tables are combined so that the comparison is present in an adequate sequential manner. The variables of interest in relation to AC, NC and CC are examined in the contrasting economies first.

| Model | R                 | R Square | Adjusted R Square | Std. Error of the<br>Estimate |
|-------|-------------------|----------|-------------------|-------------------------------|
| 1     | .441 <sup>b</sup> | .394     | .374              | 1.38056                       |
| 2     | .517 <sup>b</sup> | .467     | .449              | 1.41858                       |

Table 5. 32: Model Summary<sup>a,c</sup>

a. Country: 1=UK and 2=PAK

b. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

c. Dependent Variable: Affective Commitment

The above table reflects R-Square and Adjusted R-Square. The adjusted  $R^2$  is considered where the number of predictors varies for the dependent variable, while  $R^2$  is used if the number of predictors remains same (Cleophas *et al.*, 2000). In the present case,  $R^2$  is used as the number of predictors is constant.  $R^2$  for the UK is 0.394 reflecting 39.4% variation in affective commitment is measured by the variations in the predictors, while 0.449 for Pakistan indicates 44.9% variation of the model explained by the predictors (Table 5.32). This is acceptable as in either country one-third is explained by the model. Hence, the model is a good fit for the data.

| Table 5. 33: AN | OVA <sup>a,b, a' b</sup> |
|-----------------|--------------------------|
|-----------------|--------------------------|

| Model |            | Sum of Squares | Df  | Mean Square | F      | Sig.              |
|-------|------------|----------------|-----|-------------|--------|-------------------|
| 1     | Regression | 190.891        | 5   | 38.178      | 36.272 | .000 <sup>c</sup> |
|       | Residual   | 377.377        | 199 | 1.896       |        |                   |
|       | Total      | 568.268        | 204 |             |        |                   |
| 2     | Regression | 195.449        | 5   | 39.090      |        |                   |
|       | Residual   | 398.447        | 199 | 2.012       | 37.078 | .000°             |
|       | Total      | 593.896        | 204 | 2.012       |        |                   |

a. Country = 1.0 – UK

a'. Country = 2.0 - PAK

b. Dependent Variable: Affective Commitment

c. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

The ANOVA reflects that the F-Statistics scored 36.27 for the UK and 37.07 for Pakistan. Hence, this indicates that the explanatory power of the UK table is 36.27% and 37.07% for Pakistan. Therefore, this model is acceptable, as it has a one-third proportion of explanatory power. the sig-value is significant and, hence, the model is acceptable (=0.000 < 0.05,  $p < \alpha$ ; 0.000 < 0.05,  $p < \alpha$ ; Table 5.33). The figure below shows the multiple regressions of variables on the affective commitment of employees in Pakistan and the UK.

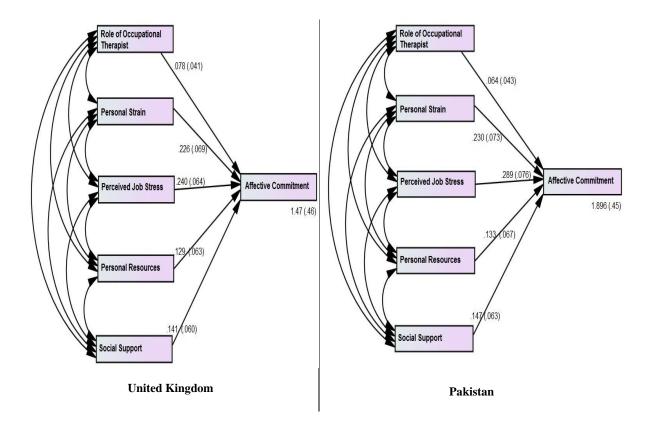


Figure 5. 8: Multiple regressions on the affective commitment in contrasting economies

Table 5. 34: Coefficients<sup>a, a,' b</sup>

|                     |                 | Unstandardized<br>Coefficients |            | Standardized<br>Coefficients |       |      |
|---------------------|-----------------|--------------------------------|------------|------------------------------|-------|------|
| Model               |                 | В                              | Std. Error | Beta                         | Т     | Sig. |
| (Const              | tant)           | 1.470                          | .465       |                              | 3.159 | .002 |
| UK Role o<br>Therap | of Occupational | .078                           | .041       | .069                         | 1.903 | .616 |
| PAK                 |                 | .064                           | .043       | .041                         | 1.488 | .070 |
| UK Persor           | nal Strain      | .226                           | .069       | .220                         | 3.855 | .023 |
| PAK                 |                 | .230                           | .073       | .227                         | 3.150 | .000 |
| UK Percei           | ved Job Stress  | .240                           | .064       | .238                         | 3.750 | .000 |

| РАК                   | .289 | .076 | .281 | 3.802 | .002 |
|-----------------------|------|------|------|-------|------|
| UK Personal Resources | .129 | .063 | .118 | 2.047 | .016 |
| РАК                   | .133 | .067 | .132 | 1.985 | .031 |
| UK Social Support     | .141 | .060 | .138 | 2.350 | .011 |
| РАК                   | .147 | .063 | .139 | 2.333 | .004 |

a. Country = 1.0 - UK

a'. Country = 2.0 - PAK

b. Dependent Variable: Affective Commitment

The statistical test showed that the role of the occupational therapist is non-significant in determining the affective commitment of university staff in the UK and Pakistan (=0.616 >  $0.05, p > \alpha$ ; =0.070 > 0.05,  $p > \alpha$ ; Table 5.34). Thus, this indicates that the effectiveness of the occupational therapist in relation to the affective commitment of the university staff is not statistically significant. In other words, the affective commitment of university employees is not significantly affected by the role of occupational therapist. Hence, there is no strong evidence against a null hypothesis and, therefore, fails to reject it. The present findings differ partially from the earlier work of Haque and Aston (2016), as the role of the occupational therapist is shown to be non-significant in the contrasting economies, whereas their work suggested otherwise. personal strain is shown to have a statistically significant impact on the affective commitment of employees in both Pakistan and the UK (=0.023 < 0.05,  $p < \alpha$ ; 0.000 < 0.05,  $p < \alpha$ ; Table 5.34). Additionally, the t-value is greater than 1.96; and, therefore, the incurred value lies in the critical region. Therefore, there is a statistically significant impact of personal strain on the AC of university staff of both Pakistan and the UK. Interestingly, the standardized coefficient  $\beta$  reflects the variation caused by the predictors when there is single unit deviation from the standard. In the present case, the variation is higher in Pakistan in contrast to the UK (Table 5.34). In other words, the impact of personal strain affecting the AC of university staff in Pakistan is higher than the UK. In the light of the present evidence, the findings support the earlier work of Ruiller and van der Heijden (2014) in that personal strain is significant in affecting the affective commitment of employees. However, the statistical evidence does not confirm Coyle-Shapiro and Kessler (2000) in that the impact is largely negative.

Furthermore, perceived job stress is statistically significant in affecting the AC of university staff in Pakistan and the UK, as the sig-value is less than the alpha (=0.000 < 0.05,  $p < \alpha$ ; =0.002 < 0.05,  $p < \alpha$ ; Table 5.34). Hence, there is strong evidence against a null hypothesis, and it is, therefore rejected. In other words, perceived job stress is highly significant in determining the affective commitment of teaching and non-teaching staff in Pakistan and the UK. the increase by 1 standard deviation in perceived job stress will affect approximately 0.2 AC in a directly proportional manner (UK  $\beta$  =.23, PAK  $\beta$  =.28; Table 5.34). Thus, the present findings support Mark and Smith (2008) to the extent that perceived job stress has a direct impact on employees, while have striking difference with Haque and Aston (2016) in that the impact does not differ in the contrasting economies.

The results confirmed that personal resources have a statistically significant impact on the affective commitment of university employees in the contrasting economies (=0.016 < 0.05,  $p < \alpha$ ; 0.031 < 0.05,  $p < \alpha$ ; Table 5.34). Hence, there is strong, statistically significant evidence against a null hypothesis. In other words, personal resources play a significant role in shaping the affective commitment of employees in a certain manner. Interestingly, the in-depth analysis revealed that the variation is higher in Pakistan in contrast to the UK, as the increase of 1 standard deviation leads to personal resources affecting AC 0.132 positively in Pakistan and 0.118 in the UK (Table 5.34). Zehra, *et al.*, (2017a) are confirmed, to some extent, in that personal resources significantly affect AC. Moreover, from the contrasting economies' perspective, this study is aligned with Haque and Aston (2016). Additionally, Folkman and Lazarus' (1980) model, used by Mark and Smith (2008), is supported through the present findings, as personal resources are an essential and effective aspect at the workplace in determining employees' commitment and attitude. Moreover, Xanthopoulou *et al.*, (2007) confirmed that personal resources have a mediating role at the workplace.

Social support has a statistically significant impact on the affective commitment of university staff employees in both the UK and Pakistan (=0.011 < 0.05,  $p < \alpha$ ; 0.003 < 0.05,  $p < \alpha$ ; Table 5.34). The results indicate that social support has a vital role in affecting the affective commitment in public universities of the contrasting economies. Therefore, in the light of statistical evidence, a null hypothesis is rejected. 1 standard deviation increase will cause social support to positively affect the AC of university staff in both; Pakistan and the UK by 0.13 (Table 5.34). This partially differs with Faizan and Zehra (2016) in that social support is not highly significant in affecting the organisational commitment of employees, while it supports

Haque *et al.*, (2018), Haque and Oino (2019), Haque and Aston (2016), Haque *et al.*, (2016), and Sackey and Sanda (2011).

| Model | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1     | .671 <sup>b</sup> | .491     | .413              | 1.24286                    |
| 2     | .689 <sup>b</sup> | .473     | .462              | 1.12853                    |

Table 5. 35: Model Summary<sup>a,c</sup>

a. Country: 1=UK and 2=PAK

b. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

c. Dependent Variable: Normative Commitment

| Mode | <b>)</b>   | Sum of Squares | Df  | Mean Square     | F      | Sig.              |
|------|------------|----------------|-----|-----------------|--------|-------------------|
| 1    | Regression | 197.158        | 5   | 39.432          | 37.887 | .000 <sup>c</sup> |
|      | Residual   | 305.851        | 199 | 1.545           |        |                   |
|      | Total      | 503.010        | 204 |                 |        |                   |
| 2    | Regression | 180.750        | 5   | 00.450          |        |                   |
|      | Residual   | 252.172        | 199 | 36.150<br>1.274 | 35.876 | .000 <sup>c</sup> |
|      | Total      | 432.922        | 204 | 1.274           |        |                   |

Table 5. 36: ANOVA<sup>a,b, a' b</sup>

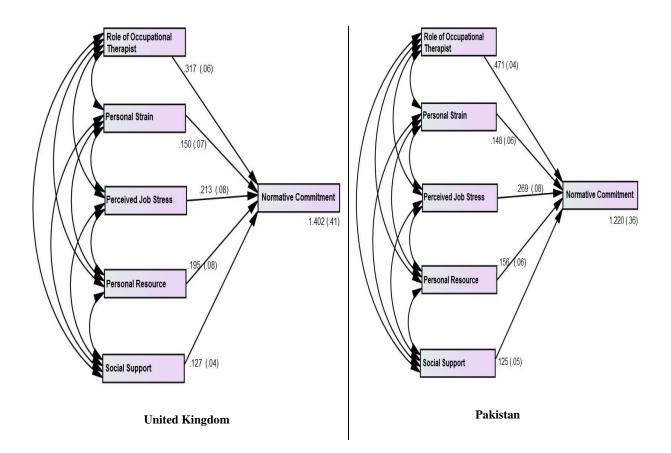
a. Country = 1.0 – UK

a'. Country = 2.0 - PAK

b. Dependent Variable: Normative Commitment

c. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

Table 5.34 showed that the R<sup>2</sup> is 0.491 in the UK, reflecting 49.1% and 0.473 in Pakistan confirming 47.3%. Therefore, in both countries, an above 45% variation in normative commitment is explained by the variations in the predictors (Table 5.35). F-test revealed that the table has over 35% explanatory power. Since the sig-value is significant, the model is thus a good fit for data (=0.000 < 0.05,  $p < \alpha$ ; 0.000 < 0.05,  $p < \alpha$ ; Table 5.36). Additionally, the figure below reflects the unstandardized coefficient and standard error of each predictor on the normative commitment of university staff in the UK and Pakistan.



### Figure 5. 9: Multiple regressions on the normative commitment in contrasting economies

|       |                                | Unstandardized<br>Coefficients |            | Standardized<br>Coefficients |       |      |
|-------|--------------------------------|--------------------------------|------------|------------------------------|-------|------|
| Model |                                | В                              | Std. Error | Beta                         | Т     | Sig. |
|       | (Constant)                     | 1.402                          | .419       |                              | 3.348 | .001 |
| UK    | Role of Occupational Therapist | .317                           | .621       | .312                         | .510  | .784 |
| PAK   |                                | .471                           | .43        | .408                         | 1.095 | .986 |
| UK    | Personal Strain                | .150                           | .70        | .145                         | 2.142 | .011 |
| PAK   | -                              | .148                           | .068       | .145                         | 2.176 | .020 |
| UK    | Perceived Job Stress           | .213                           | .085       | .207                         | 2.505 | .000 |
| PAK   | _                              | .269                           | .083       | .251                         | 3.240 | .000 |
| UK    | Personal Resources             | .195                           | .080       | .221                         | 2.437 | .018 |
| PAK   | _                              | .156                           | .068       | .152                         | 2.294 | .016 |
| UK    | Social Support                 | .127                           | .040       | .117                         | 3.175 | .000 |

Table 5. 37: Coefficients<sup>a, a,' b</sup>

| РАК | .125 | .057 | .119 | 2.192 | 037 |
|-----|------|------|------|-------|-----|
|     |      |      |      |       |     |

a. Country = 1.0 – UK

- a'. Country = 2.0 PAK
- b. Dependent Variable: Normative Commitment

The statistical test showed that the role of the occupational therapist is not statistically significant regarding the normative commitment of university employees in the UK and Pakistan (=0.784 > 0.05,  $p > \alpha$ ; =0.986 > 0.05,  $p > \alpha$ ; Table 5.37). Thus, a null hypothesis cannot be rejected, as there is no significant evidence against it. The finding has a striking difference with Haque and Aston (2016) in that the effectiveness of the occupational therapist is significant in affecting the normative commitment of employees in the contrasting economies, as there is non-significant affect evident in the contrasting economies. Additionally, the statistical results confirmed that personal strain has a significant role in determining the normative commitment of university (teaching and administrative) staff in Pakistan and the UK (=0.020 < 0.05,  $p < \alpha$ ; 0.011 < 0.05,  $p < \alpha$ ; Table 5.37). the t-score is higher than 1.96, confirming that normative commitment is significantly affected by employees' personal strain. Interestingly, an increase of 1 standard deviation will lead to personal strain positively affecting the normative commitment of university staff of the UK and Pakistan by 0.145 (Table 5.37). In this aspect, the present study confirms the earlier work of Zehra et al., (2017a) and Haque et al., (2016), whereas it differs with Zehra et al., (2017b) by confirming a statistically significant impact of personal strain on normative commitment.

Interestingly, the results showed that, statistically, perceived job stress extremely statistically significantly affects normative commitment in the contrasting economies (=0.000 < 0.05,  $p < \alpha$ ; 0.000 < 0.05,  $p < \alpha$ ; Table 5.37). There is strong evidence against a null hypothesis and, therefore, it is rejected. The results indicate that perceived job stress has a significant impact on the NC; the results also showed that the impact is higher in Pakistan in contrast to the UK as 1 standard deviation increases the NC and is affected by it up to 0.251 in Pakistan, while in the UK it is affected by it up to 0.207 (Table 5.37). The current findings support Haque and Aston (2016), while oppose Zehra *et al.*, (2017b) in this regard.

Statistically, personal resources statistically significantly affect the normative commitment of teaching and non-teaching, university staff in the contrasting economies (=0.018 < 0.05,  $p < \alpha$ ; 0.016 < 0.05,  $p < \alpha$ ; Table 5.37). The results showed that the incurred value lie in the critical

region and, hence, there is strong evidence against a null hypothesis. Thus, a null hypothesis is rejected. The role of personal resources is higher in the UK, as an increase of 1 standard deviation reflects over 0.221 direct variations in normative commitment, while in Pakistan it is 0.152 (Table 5.37). Thus, Haque *et al.*, (2018), Haque and Aston (2016) and Haque *et al.*, (2016) is supported while, to some extent, Yilmaz, Özer and Günlük (2014) are contradicted by the present findings. he normative commitment of teaching and administrative staff is statistically significantly affected by social support in the UK and Pakistan (=0.000 < 0.05, *p* <  $\alpha$ ; 0.032 < 0.05, *p* <  $\alpha$ ; Table 5.37). Additionally, the t-score is higher than 1.96, indicating that the impact is statistically significant. A null hypothesis is rejected owing to strong, statistical evidence against it. Furthermore, social support positively affects normative commitment by over 0.11 with an increase of 1 unit of standard deviation. Thus, this study supports Haque *et al.*, (2018), Haque and Aston (2016) to a large extent and indirectly supports Sackey and Sanda (2008) in that social support at a workplace is vital for employees to be committed to their respective organisations.

Table 5. 38: Model Summary<sup>a,c</sup>

| Model | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1     | .479 <sup>b</sup> | .443     | .373              | 1.30505                    |
| 2     | .563 <sup>b</sup> | .417     | .390              | 1.28090                    |

a. Country: 1=UK and 2=PAK

b. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

c. Dependent Variable: Continuance Commitment

Table 5. 39: ANOVA<sup>a,b, a' b</sup>

| Model |            | Sum of Squares | Df  | Mean Square | F      | Sig.              |
|-------|------------|----------------|-----|-------------|--------|-------------------|
| 1     | Regression | 180.702        | 5   | 36.140      | 34.437 | .000 <sup>c</sup> |
|       | Residual   | 337.225        | 199 | 1.703       |        |                   |
|       | Total      | 517.926        | 204 |             |        |                   |
| 2     | Regression | 181.068        | 5   | 36.214      |        |                   |
|       | Residual   | 324.859        | 199 | 1.641       | 36.573 | .000°             |
|       | Total      | 505.926        | 204 | 1.041       |        |                   |

- a. Country = 1.0 UK
- a'. Country = 2.0 PAK
- b. Dependent Variable: Continuance Commitment

c. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

The 44.3% variation in continuance commitment in the UK is explained by the predictors considered in this study, while the same predictors explained a 41.7% variation in continuance commitment in Pakistan (Table 5.38). Additionally, the F-score for the UK is 34.4, reflecting a 34.4% explanatory power of the model, while in Pakistan the explanatory power is 36.5%. the sig-value is significant for both models, confirming that the model is acceptable, as these are a good fit for the data (=0.000 < 0.05,  $p < \alpha$ ; 0.000 < 0.05,  $p < \alpha$ ; Table 5.39).

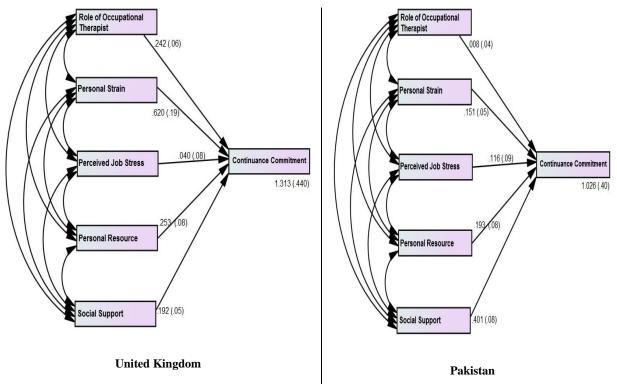


Figure 5. 10: Multiple regressions on the continuance commitment in contrasting economies

|            | Unstandardized<br>Coefficients |      | Standardized<br>Coefficients |       |      |
|------------|--------------------------------|------|------------------------------|-------|------|
| Model      | B Std. Error                   |      | Beta                         | Т     | Sig. |
| (Constant) | 1.313                          | .440 |                              | 2.986 | .003 |
| UK         | .242                           | .065 | .232                         | 1.406 | .180 |

Table 5. 40: Coefficients<sup>a, a,' b</sup>

| PAK | Role of Occupational<br>Therapist | .008 | .048 | .010 | .161  | .872 |
|-----|-----------------------------------|------|------|------|-------|------|
| UK  | Personal Strain                   | .620 | .193 | .553 | 3.212 | .030 |
| PAK | -                                 | .151 | .053 | .136 | 2.849 | .021 |
| UK  | Perceived Job Stress              | .040 | .089 | .037 | .445  | .136 |
| PAK | _                                 | .116 | .094 | .090 | 1.229 | .220 |
| UK  | Personal Resources                | .253 | .084 | .241 | 3.011 | .000 |
| PAK | -                                 | .193 | .086 | .182 | 2.248 | .026 |
| UK  | Social Support                    | .192 | .056 | .087 | 3.428 | .000 |
| PAK | _                                 | .401 | .081 | .404 | 4.930 | .000 |

a. Country = 1.0 – UK

a'. Country = 2.0 - PAK

b. Dependent Variable: Continuance Commitment

The role of the occupational therapist is non-significant in relation to the continuance commitment of employees in the contrasting economies (=0.18 > 0.05,  $p > \alpha$ ; =0.872 > 0.05,  $p > \alpha$ ; Table 5.40). In other words, the continuance commitment of university staff in the UK and Pakistan is not statistically significantly determined by the role of the occupational therapist. Hence, a null hypothesis cannot be rejected. This finding, therefore, differs from the earlier work of Haque and Aston (2016) in terms of contrasting economies. Thus, statistically the effectiveness of the occupational therapist cannot be established in determining the continuance commitment of employees working at public universities in the UK and Pakistan. Interestingly, personal strain is statistically significant in affecting the continuance commitment of employees in both countries (=0.030 < 0.05,  $p < \alpha$ ; 0.021 < 0.05,  $p < \alpha$ ; Table 5. 40). Hence, the findings support Haque *et al.*, (2018), Haque and Oino (2017), and Haque and Aston (2016) in the contrasting economies perspective but differs with Zehra *et al.*, (2017b) on general grounds.

the impact varies in the contrasting economies as evident that 0.553 direct effect of personal strain on the CC of university staff in the UK, while 0.136 in Pakistan with an increase of 1 standard deviation (Table 5. 40). Perceived job stress has a non-significant impact on the continuance commitment of university staff in the contrasting economies (=0.136 > 0.05, p >  $\alpha$ ; 0.220 > 0.05, p >  $\alpha$ ; Table 5. 40). In other words, perceived job stress does not affect the

continuance commitment of the employees in the contrasting economies significantly. A null hypothesis cannot be rejected, as there is no significant evidence against it. Therefore, Haque and Aston (2016) is challenged by our results, while Zehra et al., (2017b) are supported. Moreover, personal resources are statistically significantly interlinked with the continuance commitment of university staff in the UK and Pakistan (=0.000 < 0.05,  $p < \alpha$ ; =0.026 < 0.05,  $p < \alpha$ ; Table 5. 40). In other words, personal resources have a significant impact on CC. Thus, a null hypothesis is rejected, as there is strong evidence against it. Personal resources affect CC by 0.241 in the UK, while in Pakistan they affect CC by 0.182 with the increase in the standard deviation by 1 unit. This indicates that the role is highly statistically significant. Therefore, the findings are aligned with Haque et al., (2018), Zehra, et al., (2017a) and Haque and Aston (2016). Social support has an extremely significant impact on the continuance commitment of university staff in both the UK and Pakistan. A null hypothesis is rejected owing to strong statistical evidence (=0.000 < 0.05,  $p < \alpha$ ; 0.000 < 0.05,  $p < \alpha$ ; Table 5. 40). Hence, in this regard, the present findings are aligned with Haque et al., (2018), Haque and Oino (2017), Haque and Aston (2016), while it differs with Faizan and Zehra (2017). Nevertheless, the statistical results showed different aspects but still there is a need to examine the visibility of the contrasting attributes in the contrasting economies.

|   | Country           | Ν   | Mean   | Std. Deviation | Variance |
|---|-------------------|-----|--------|----------------|----------|
| Representation of<br>Occupational Therapist | United<br>Kingdom | 204 | .3040  | .21869         | .074     |
|   | Pakistan          | 204 | .3984  | .27161         | .048     |
| Effectiveness of<br>Occupational Therapist  | United<br>Kingdom | 204 | 3.2467 | 1.4987         | 3.85     |
|   | Pakistan          | 204 | 3.5964 | 1.9620         | 2.24     |
| Personal Strain                             | United<br>Kingdom | 204 | 3.8529 | 1.2603         | 1.64     |
|   | Pakistan          | 204 | 3.7761 | 1.2812         | 1.58     |
| Perceived Job Stress                        | United<br>Kingdom | 204 | 3.8799 | 1.1954         | 1.77     |
|   | Pakistan          | 204 | 3.6732 | 1.3312         | 1.42     |
| Personal Resources                          | United<br>Kingdom | 204 | 3.5906 | 1.4376         | 2.23     |

 Table 5. 41: Group Statistics

|                        | Pakistan          |     |        |        |      |
|------------------------|-------------------|-----|--------|--------|------|
|                        |                   |     |        |        |      |
|                        |                   | 204 | 3.4436 | 1.4948 | 2.06 |
| Social Support         | United<br>Kingdom | 204 | 3.7426 | 1.5412 | 1.84 |
|                        | Pakistan          | 204 | 3.6765 | 1.3585 | 2.37 |
| Affective Commitment   | United<br>Kingdom | 204 | 3.9583 | 1.5188 | 1.51 |
|                        | Pakistan          | 204 | 3.6103 | 1.6368 | 1.63 |
| Normative Commitment   | United<br>Kingdom | 204 | 3.9804 | 1.3187 | 1.31 |
|                        | Pakistan          | 204 | 3.4510 | 1.2806 | 1.28 |
| Continuance Commitment | United<br>Kingdom | 204 | 3.6324 | 1.4348 | 1.43 |
|                        | Pakistan          | 204 | 3.3676 | 1.5311 | 1.53 |

The results showed that the rate of occupational therapist representation in the UK is higher in contrast to Pakistan, as the mean value is relatively lower (=0.3040 < 0.3984, Table 5.41). In other words, rate of representation of the occupational therapist is higher at universities in the UK (developed economy) in contrast to Pakistan (emerging economy). the effectiveness of the occupational therapist was evaluated in the universities of the contrasting economies. Results revealed that the mean value for the UK is lower than that of Pakistan and, hence, the visibility of effectiveness is higher in the UK, in contrast to Pakistan, despite the overall evidence showing that it is not highly effective, to a large extent (=3.2467 < 3.5964, Table 5.41). Moreover, personal strain is more visible in the university staff of Pakistan (emerging economy), in contrast to the UK (developed economy), as the mean score is lower (=3.7761 < 3.85929, Table 5.41). Nevertheless, there is only fractional difference of personal strain between the economies. Similarly, perceived job stress is higher in Pakistan, in contrast to UK (3.6732 < 3.8799, Table 5.41). Hence, perceived job stress among the university staff of Pakistan is more visible, in contrast to the UK.

Personal resources are more visible in Pakistan than in the UK (=3.4436 < 3.5906, Table 5.41). This indicates that personal resources are used more by both teaching and non-teaching staff in Pakistan, in contrast to the UK. In addition, social support at the universities in Pakistan is

significantly visible, in contrast to the UK (=3.6756 < 3.7426, Table 5.41). Thus, social support is used more constructively by employees in the Pakistani universities, in contrast to the UK. Furthermore, the organisational commitment's antecedents were examined in terms of visibility in the contrasting economies. Results showed that continuance commitment is highly visible, in contrast to affective and normative commitment, in Pakistan because it is the lowest of the three (CC=3.3676 < NC=3.4510 < AC=3.6103, Table 5.41). Moreover, the dimensions of organisational commitment are more visible in Pakistan than in the UK (AC=3.6103 < 3.9583, NC=3.4510 < 3.9804, CC=3.3676 < 3.6324, Table 5.41). Thus, in this regard and to a certain extent, the present findings support Haque and Aston (2016), while differ from Haque *et al.*, (2018), as the AC is higher in the developing country, in contrast to the developed country.

In addition, considering the presence of all types of commitment despite stress, present findings to some extent opposed Danish *et al.*, (2015) and Khatibi *et al.*, (2009) while support Chaudhry (2012) and Jackson and Rothman (2006). Nevertheless, regarding all three dimensions of OC, this study differs from Haque and Aston (2016) in that the UK has a higher AC, NC and CC than Pakistan. However, that study mostly covered the IT sector, whereas the present findings are from the education sector. Moreover, the IT sector was mostly privately owned, while the education sector is a public sector. Hence, it is concluded that the antecedents' visibility and degree vary from sector to sector in terms of nature and type. In other words, the dynamics of the sector have a role in creating variation in overall organisational commitment. Another important notion is that Haque and Aston (2016) has higher responses from inexperienced graduates, while here the majority of the respondents were experienced and in the 40 to 60 years age bracket.

| Model | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1     | .501 <sup>b</sup> | .451     | .419              | 1.27687                    |
| 2     | .488 <sup>b</sup> | .436     | .402              | 1.33841                    |

5.2.8.2 Predictors and Organisational commitments' antecedents - Contrasting Genders Table 5. 42: Model Summary<sup>a,c</sup>

a. Gender: 1=Male and 2=Female

b. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

c. Dependent Variable: Affective Commitment

| Model |            | Sum of Squares | Df  | Mean Square | F      | Sig.              |
|-------|------------|----------------|-----|-------------|--------|-------------------|
| 1     | Regression | 108.069        | 5   | 21.614      | 19.257 | .000 <sup>c</sup> |
|       | Residual   | 332.817        | 199 | 1.630       |        |                   |
|       | Total      | 430.886        | 204 |             |        |                   |
| 2     | Regression | 95.254         | 5   | 19.051      |        |                   |
|       | Residual   | 352.827        | 197 | 1.791       | 17.260 | .000°             |
|       | Total      | 448.081        | 202 | 1.731       |        |                   |

Table 5. 43: ANOVA<sup>a,b, a' b</sup>

a. Gender = 1.0 – Male

a'. Gender = 2.0 - Female

b. Dependent Variable: Affective Commitment

c. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

In the above tables, the option of 'preferred not to say' is discarded because only those responses with an identified gender are considered for exploring the perspective in terms of gender. The  $R^2$  is over 40% for male and female, reflecting that the predictors explain 40% variation in the dependent variable in both genders (Table 5.42). the F-score reflects over 15% explanatory power for males and females, while the sig-value is statistically significant and, therefore, the model is a good fit for the data (Table 5.43).

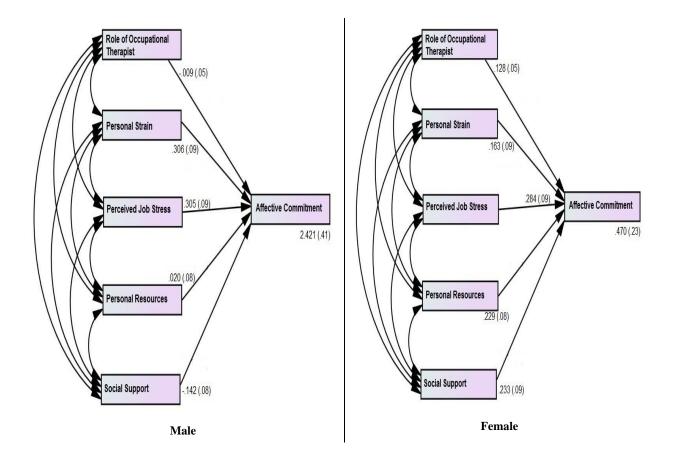


Figure 5. 11: Multiple regressions on the affective commitment in contrasting genders.

Table 5. 44: Coefficients<sup>a, a,' b</sup>

|  | Unstandardized<br>Coefficients |            | Standardized<br>Coefficients |       |      |
|--|--------------------------------|------------|------------------------------|-------|------|
| Model                                  | В                              | Std. Error | Beta                         | т     | Sig. |
| (Constant)                             | 2.421                          | .415       |                              | 5.832 | .000 |
| Male Role of Occupational<br>Therapist | 009                            | .055       | 011                          | 158   | .875 |
| Female                                 | .128                           | .057       | .150                         | 2.247 | .026 |
| Male Personal Strain                   | .306                           | .091       | .273                         | 3.360 | .001 |
| Female                                 | .163                           | .098       | .136                         | 1.671 | .096 |
| Male Perceived Job Stress              | .305                           | .096       | .257                         | 3.186 | .002 |
| Female                                 | .284                           | .092       | .250                         | 3.080 | .002 |
| Male Personal Resources                | .020                           | .087       | .020                         | .227  | .821 |
| Female                                 | .229                           | .086       | .223                         | 2.538 | .001 |
| Male Social Support                    | .242                           | .085       | .239                         | 2.847 | .009 |

| Female | .233 | .091 | .230 | 2.560 | .001 |
|--------|------|------|------|-------|------|
|        |      |      |      |       |      |

a. Gender = 1.0 - Male

- a'. Gender = 2.0 Female
- b. Dependent Variable: Affective Commitment

The results showed that effectiveness of the occupational therapist significantly affects the affective commitment of the females, while it is non-significant for males (=0.025 < 0.05,  $p < \alpha$ ; =0.875 > 0.05,  $p > \alpha$ ; Table 5.44). Hence, this indicates that effectiveness of the occupational therapist affects the AC of females to a significant level but does not have any significant role in determining it for males. In this aspect, the study supports Haque *et al.*, (2016) in that females reported to use the occupational therapist's counselling in a more effective manner, in contrast to their counterparts. Interestingly, the perceived strain is statistically significant in affecting the AC of males, while it is non-significant for females (=0.001 < 0.05,  $p < \alpha$ ; =0.096 > 0.05,  $p > \alpha$ ; Table 5.44). A null hypothesis cannot be rejected. This study, therefore, supports Haque *et al.*, (2016), while it differs from the notion of Sackey and Sanda (2011) and Brannon and Fiest (1992) that males deal with personal strain more effectively than females, owing to adaptive response. In other words, females are more effective in ensuring that personal strain does not affect their emotional attachment to an organisation.

Moreover, it is evident that perceived job stress has a statistically significant impact on the AC of the contrasting genders (=0.002 < 0.05,  $p < \alpha$ ; =0.002 < 0.05,  $p < \alpha$ ; Table 5.44). Hence, a null hypothesis is rejected. Interestingly, the present findings contradict Sackey and Sanda (2011), Kumasey *et al.*, (2014), Haque *et al.*, (2016) and Haque *et al.*, (2018) by confirming that perceived job stress affects the AC of male and female university staff in the contrasting economies. The statistical tests also revealed that personal resources affect the females' AC, while they do not affect males' AC significantly (=0.001 < 0.05,  $p < \alpha$ ; =0.821 > 0.05,  $p > \alpha$ ; Table 5.44). Hence, a null hypothesis cannot be rejected because personal resources have a significant role in determining the females' AC, in contrast to males. In other words, females reported using personal resources in a more constructive manner, in contrast to their counterparts at a public university. Thus, this study supports, to a large extent, Haque *et al.*, (2016) and Sackey and Sanda (2011), while it differs from Kumasay *et al.*, (2014) in that the AC of males and females are similarly affected, owing to personal resources. Social support plays a statistically significantly role in affecting the AC of males and females (=0.009 < 0.05,  $p < \alpha$ ; 0.001 < 0.05,  $p < \alpha$ ; Table 5.44). Hence, there is strong evidence against a null

hypothesis. Since the obtained value for females is lower than that for males, this indicates that social support is more constructively used by females, in contrast to their counterparts, in shaping AC. Hence, this study supports Haque *et al.*, (2018), Haque *et al.*, (2016), Haque and Aston (2016) and Sackey and Sanda (2011), while it differs from Kumasey *et al.*, (2014).

| Model | R                 | R Square | Adjusted R Square | Std. Error of the<br>Estimate |
|-------|-------------------|----------|-------------------|-------------------------------|
| 1     | .479 <sup>b</sup> | .423     | .411              | 1.18239                       |
| 2     | .442 <sup>b</sup> | .420     | .375              | 1.18336                       |

Table 5. 45: Model Summary<sup>a,c</sup>

a. Gender: 1=Male and 2=Female

b. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

c. Dependent Variable: Normative Commitment

| Model |            | Sum of Squares | Df  | Mean Square | F      | Sig.              |
|-------|------------|----------------|-----|-------------|--------|-------------------|
| 1     | Regression | 82.67          | 5   | 16.521      | 15.124 | .000 <sup>c</sup> |
|       | Residual   | 276.815        | 199 | 1.398       |        |                   |
|       | Total      | 359.422        | 204 |             |        |                   |
| 2     | Regression | 67.361         | 5   | 16.472      |        |                   |
|       | Residual   | 275.792        | 197 | 1.412       | 15.060 | .000°             |
|       | Total      | 342.153        | 202 | 1.112       |        |                   |

 Table 5. 46: ANOVA<sup>a,b, a' b</sup>

a. Gender = 1.0 - Male

a'. Gender = 2.0 - Female

b. Dependent Variable: Normative Commitment

c. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

The model summary revealed that over 40% of the variations in the NC of the contrasting genders is explained by the variation in the predictors (Table 5.45). Additionally, the F-test revealed that a 15% acceptable explanatory power of the model is significant, reflecting that the model is a good fit for data (Table 5.46).

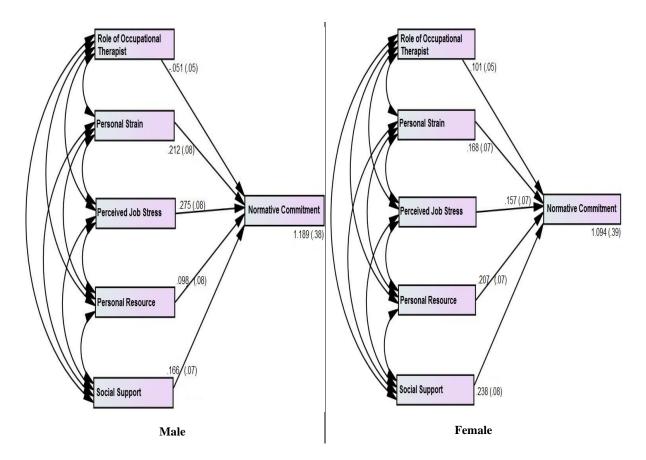


Figure 5. 12: Multiple regressions on the normative commitment in contrasting genders.

|        |                                   | Unstandardized<br>Coefficients |            | Standardized<br>Coefficients |        |      |
|--------|-----------------------------------|--------------------------------|------------|------------------------------|--------|------|
| Model  |                                   | В                              | Std. Error | Beta                         | т      | Sig. |
| (0     | Constant)                         | 1.189                          | .384       |                              | 3.094  | .002 |
|        | Role of Occupational<br>Therapist | 051                            | .051       | 068                          | -1.001 | .318 |
| Female |                                   | .101                           | .050       | .133                         | 2.003  | .047 |
| Male P | Personal Strain                   | .212                           | .084       | .208                         | 2.515  | .013 |
| Female |                                   | .168                           | .079       | .064                         | 2.127  | .031 |
| Male P | Perceived Job Stress              | .275                           | .089       | .253                         | 3.100  | .002 |
| Female |                                   | .157                           | .078       | .155                         | 2.013  | .046 |
| Male P | Personal Resources                | .098                           | .081       | .108                         | 1.206  | .229 |
| Female |                                   | .207                           | .076       | .222                         | 2.732  | .007 |
| Male S | Social Support                    | .166                           | .078       | .186                         | 2.121  | .035 |

| Female | .238 | .081 | .139 | 2.938 | .002 |
|--------|------|------|------|-------|------|
|        |      |      |      |       |      |

a. Gender = 1.0 - Male

- a'. Gender = 2.0 Female
- b. Dependent Variable: Normative Commitment

Statistical tests revealed that the role of the occupational therapist is statistically significant in affecting females' normative commitment, while it is non-significant for their counterparts (=0.047 < 0.05,  $p < \alpha$ ; =0.318 > 0.05,  $p > \alpha$ ; Table 5.47). This indicates that a null hypothesis is rejected in the light of the contrasting findings. Moreover, the females find the role of occupational therapist more effective, in contrast to males. Hence, the study supports Haque *et al.*, (2016). In addition, personal strain is statistically significantly affecting NC of the contrasting genders. In other words, personal strain affects the normative commitment of males and females significantly. A null hypothesis is rejected owing to strong evidence against it (=0.013 < 0.05,  $p < \alpha$ ; =0.031 < 0.05,  $p < \alpha$ ; Table 5.47). Nevertheless, the NC of males is fractionally higher in significance than that of the females. Hence, in this regard, the present study supports Haque *et al.*, (2016), Sackey and Sanda (2011) and Brannon and Fiest (1992).

Interestingly, the perceived job stress is evident to statistically significantly affecting the normative commitment of males and females working at the public university (=0.002 < 0.05,  $p < \alpha$ ; =0.046 < 0.05,  $p < \alpha$ ; Table 5.47). Hence, in light of the statistical results, a null hypothesis is rejected. In other words, perceived job stress has a statistically significant role in determining the normative commitment of the contrasting genders. Thus, the present findings are strikingly different to Haque *et al.*, (2018), Haque *et al.*, (2016), Kumasey *et al.*, (2014), and Sackey and Sanda (2011). Personal resources have a statistically significant role in shaping the normative commitment of females but have a non-significant impact on male employees working at the universities. Thus, a null hypothesis cannot be rejected (=0.007 < 0.05,  $p < \alpha$ ; =0.229 > 0.05,  $p > \alpha$ , Table 5.47). The contrasting results indicate that the present findings differ from Kumasey *et al.*, (2014) but are aligned with Sackey and Sanda (2011), to a large extent. Moreover, the results confirmed that social support has a statistically significant role in affecting the normative commitment of the contrasting genders working in the universities of the UK and Pakistan. There is strong evidence against a null hypothesis and, therefore, it is rejected (=0.035 < 0.05,  $p < \alpha$ ; =0.002 < 0.05,  $p < \alpha$ ; Table 5.47). Partially, the study supports

the earlier work of Sackey and Sanda (2011) but differs from Haque *et al.*, (2016) and Kumasey *et al.*, (2014).

| Model | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1     | .538 <sup>b</sup> | .429     | .372              | 1.25888                    |
| 2     | .658 <sup>b</sup> | .434     | .411              | 1.29533                    |

#### Table 5. 48: Model Summary<sup>a,c</sup>

a. Gender: 1=Male and 2=Female

b. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

c. Dependent Variable: Continuance Commitment

| Model |            | Sum of Squares | Df  | Mean Square | F      | Sig.              |
|-------|------------|----------------|-----|-------------|--------|-------------------|
| 1     | Regression | 127.885        | 5   | 25.577      | 23.992 | .000 <sup>c</sup> |
|       | Residual   | 315.415        | 199 | 1.585       |        |                   |
|       | Total      | 443.300        | 204 |             |        |                   |
| 2     | Regression | 88.620         | 5   | 17.724      |        |                   |
|       | Residual   | 242.704        | 197 | 1.232       | 16.492 | .000°             |
|       | Total      | 331.324        | 202 | 1.232       |        |                   |

Table 5. 49: ANOVA<sup>a,b, a' b</sup>

a. Gender = 1.0 - Male

a'. Gender = 2.0 - Female

b. Dependent Variable: Continuance Commitment

c. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

The model summary reflects that the mode is a good fit for the data, as over 40% of the variations in the dependent variable are explained by the variations in the predictors (Table 5.48). Moreover, the explanatory power is acceptable for the contrasting genders and the model is statistically significant (Table 5.49).

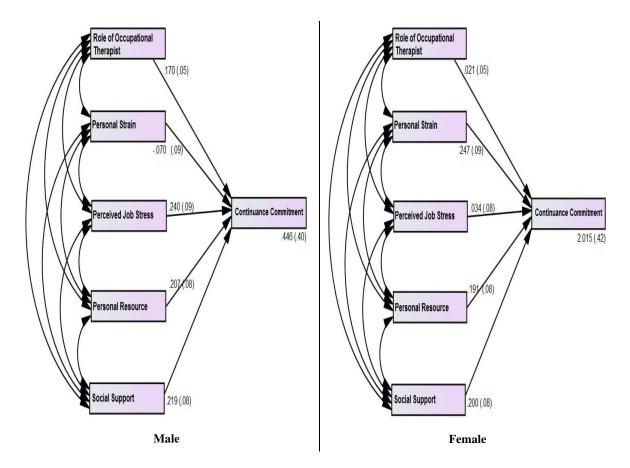


Figure 5. 13: Multiple regressions on the continuance commitment in contrasting genders.

 Table 5. 50: Coefficients<sup>a, a,' b</sup>

|                               |           | Unstandardized<br>Coefficients |            | Standardized<br>Coefficients |       |      |
|-------------------------------|-----------|--------------------------------|------------|------------------------------|-------|------|
| Model                         |           | В                              | Std. Error | Beta                         | т     | Sig. |
| (Constant)                    |           | .446                           | .409       |                              | 1.089 | .277 |
| Male Role of Occ<br>Therapist | upational | .170                           | .054       | .206                         | 3.153 | .002 |
| Female                        |           | .021                           | .055       | .026                         | .380  | .704 |
| Male Personal St              | rain      | 070                            | .090       | 062                          | 782   | .435 |
| Female                        |           | .247                           | .094       | .241                         | 2.627 | .002 |
| Male Perceived J              | ob Stress | .240                           | .095       | .199                         | 2.534 | .012 |
| Female                        |           | .034                           | .089       | .032                         | .386  | .700 |
| Male Personal Re              | sources   | .207                           | .086       | .207                         | 2.404 | .017 |
| Female                        |           | .191                           | .083       | .195                         | 2.313 | .022 |
| Male Social Supp              | ort       | .219                           | .083       | .222                         | 2.632 | .009 |

| Female | .200 | .088 | .191 | / / / 5 |  |
|--------|------|------|------|---------|--|
|        |      |      |      |         |  |

a. Gender = 1.0 – Male

- a'. Gender = 2.0 Female
- b. Dependent Variable: Continuance Commitment

The statistical results showed that the continuance commitment of male employees is significantly affected by the role of the occupational therapist, while females' CC is not significantly affected. Hereby, the respondents are making suppositions on behalf of whether or not occupational therapy works or does not work for other people. The finding slightly reflects the counter-intuitive and perhaps this might reflect men's and women's dispositions towards therapists. Nevertheless, study reports respondents' suppositions which suggest that the effectiveness of the occupational therapist is higher for males' CC, in contrast to their counterparts (=0.002 < 0.05,  $p < \alpha$ ; =0.704 > 0.05,  $p > \alpha$ ; Table 5.50). This finding, therefore, differs from the previous work of Haque et al., (2018), Haque et al., (2016) and Haque and Aston (2016) who argued that females find occupational therapists more effective, which improves their continuance commitment. Personal strain statistically significant affect the females' continuance commitment, while it has a non-significant effect on males' CC (=0.002 < 0.05,  $p < \alpha$ ; =0.435 > 0.05,  $p > \alpha$ ; Table 5.50). In other words, personal strain differs in its effect on the continuance commitment of males and females. This indicates that its impact is significant in determining females' CC. Hence, in this regard, this study partially differs from Haque and Aston (2016) by confirming that females experiencing higher personal strain affect their continuance commitment in contrast to males.

Additionally, perceived job stress has a statistically significant effect on males' CC, while it has a non-significant impact on females' CC (=0.012 < 0.05,  $p < \alpha$ ; =0.700 > 0.05,  $p > \alpha$ ; Table 5.50). Hence, it reflects that there is no evidence against a null hypothesis. This also reflects that perceived job stress causes males CC to decline, while females' CC does not. Therefore, this study supports Haque and Yamoah (2014), Haque and Aston (2016), Haque *et al.*, (2016) and Haque *et al.*, (2018), while it differs from Hemdi (2009) and Kumasey *et al.*, (2014). Interestingly, personal resources are evident to statistically significantly affect the continuance commitment of the contrasting genders. A null hypothesis is rejected owing to strong evidence against it (=0.017 < 0.05,  $p < \alpha$ ; =0.022 < 0.05,  $p < \alpha$ ; Table 5.50). In other words, personal resources affect the continuance commitment of the continuance commitment of the contrasting genders. A null hypothesis is rejected owing to strong evidence against it (=0.017 < 0.05,  $p < \alpha$ ; =0.022 < 0.05,  $p < \alpha$ ; Table 5.50). In other words, personal resources affect the continuance commitment of the continuance commitment of the contrasting genders significantly. The present finding supports Haque and Aston (2016), while it differs from Kumasey *et al.*, (2014).

Moreover, social support has a statistically significant effect on the continuance commitment of the contrasting genders (=0.009 < 0.05,  $p < \alpha$ ; =0.025 < 0.05,  $p < \alpha$ ; Table 5.50). Hence, in the light of the evidence, a null hypothesis is rejected. In other words, social support significantly affects the continuance commitment of male and female employees in a distinctive manner. Therefore, the present study supports Haque and Aston (2016), Haque *et al.*, (2016) and Haque *et al.*, (2018), while it partially differs from Kumasey *et al.*, (2014).

Since, two respondents did not disclose their gender, these are, therefore, excluded by only considering male and female responses to measure the visibility of the predictors.

|   | Gender         | Ν   | Mean   | Std. Deviation | Variance |
|---|----------------|-----|--------|----------------|----------|
| Representation of<br>Occupational Therapist | Male           | 204 | .3284  | .25249         | .064     |
|   | Female         | 202 | .2486  | .24865         | .062     |
| Effectiveness of<br>Occupational Therapist  | Male           | 204 | 3.5264 | 1.7872         | 3.19     |
|   | Female         | 202 | 3.3203 | 1.7215         | 2.96     |
| Personal Strain                             | Male           | 204 | 3.9853 | 1.3023         | 1.69     |
|   | Female         | 202 | 3.6403 | 1.2206         | 1.49     |
| Perceived Job Stress                        | Male           | 204 | 3.9330 | 1.224          | 1.49     |
|   | Female         | 202 | 3.6196 | 1.2897         | 1.66     |
| Personal Resources                          | Male<br>Female | 204 | 3.9985 | 1.4725         | 2.16     |
|   |                | 202 | 3.8391 | 1.3085         | 1.95     |
| Social Support                              | Male<br>Female | 204 | 3.3284 | 1.4896         | 2.21     |
|   |                | 202 | 3.0842 | 1.3983         | 1.71     |
| Affective Commitment                        | Male           | 204 | 3.1708 | 1.4569         | 2.12     |
|   | Female         | 202 | 4.4044 | 1.4649         | 2.14     |

 Table 5. 51: Group Statistics

| Normative Commitment   | Male   | 204 | 3.8137 | 1.3306 | 1.71 |
|------------------------|--------|-----|--------|--------|------|
|                        | Female | 202 | 3.6287 | 1.3085 | 1.71 |
| Continuance Commitment | Male   | 204 | 3.9356 | 1.4750 | 2.17 |
|                        | Female | 202 | 3.0637 | 1.3743 | 1.88 |

The results revealed that the rate of representation of the occupational therapist is more preferred by females, in contrast to males (=0.2486 < 0.3284, Table 5.51). Moreover, the effectiveness of the occupational therapist in the education sector is more evident among females, in contrast to males (=3.3203 < 3.5264, Table 5.51). The mean difference is significant and, thus, reflects that the visibility of the professional occupational therapists' effectiveness is more evident among female university staff, in contrast to males. Interestingly, personal strain is more evident among female employees, in contrast to males (=3.6403 < 3.9585, Table 5.51). Thus, the findings revealed that personal strain is higher in females, in contrast to organisational strain. The earlier chi-square results also revealed that personal strain is higher in females, in contrast to males university and economy (=3.6196 < 3.9985, Table 5.51).

Interestingly, the test revealed that females make more effective use of personal resources than males (=3.8391 < 3.9985, Table 5.51). In other words, females working in universities are using personal resources more frequently in order to deal with different types of stressors, in contrast to males. Moreover, the mean difference is significant between males and females regarding the effective use of social support at the workplace (=3.0842 < 3.3284, Table 5.51). Therefore, there is statistical evidence to confirm that preference, usage and visibility of social support is higher among female employees, in contrast to male employees, at universities. Considering the antecedents of organisational commitment, the statistical analysis revealed that affective commitment is highly visible among males (=3.1708 < 4.4044, Table 5.51), whereas normative commitment and continuance commitment is higher among female employees, in contrast to their counterparts (NC=3.6287 < 3.8137, CC=3.0637 < 3.9356, Table 5.51). Hence, the types of organisational commitment vary among the contrasting genders, as NC and CC are highly visible among females, while AC is higher in male employees. The present findings support Haque and Yamoah (2014) in that AC is higher among males, while NC and CC are highler.

among females and, thus, these results differ from Haque and Aston (2016) and Haque *et al.*, (2016).

## 5.2.8.3 Predictors and Organisational commitments' antecedents - Contrasting Faculties

| Model | R                 | R Square | Adjusted R Square | Std. Error of the<br>Estimate |
|-------|-------------------|----------|-------------------|-------------------------------|
| 1     | .517 <sup>b</sup> | .427     | .382              | 1.30200                       |
| 2     | .448 <sup>b</sup> | .420     | .381              | 1.49870                       |

#### Table 5. 52: Model Summary<sup>a,c</sup>

a. Faculty: 1=Teaching and 2=Administrative

b. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

c. Dependent Variable: Affective Commitment

| Model |            | Sum of Squares | Df  | Mean Square | F         | Sig.              |
|-------|------------|----------------|-----|-------------|-----------|-------------------|
| 1     | Regression | 122.145        | 5   | 24.429      | 14.41.992 | .000 <sup>c</sup> |
|       | Residual   | 337.305        | 199 | 1.695       |           |                   |
|       | Total      | 459.450        | 204 |             |           |                   |
| 2     | Regression | 111.957        | 5   | 22.391      | 9.969     | .000°             |
|       | Residual   | 446.954        | 199 | 2.246       |           |                   |
|       | Total      | 558.911        | 204 |             |           |                   |

Table 5. 53: ANOVA<sup>a,b, a' b</sup>

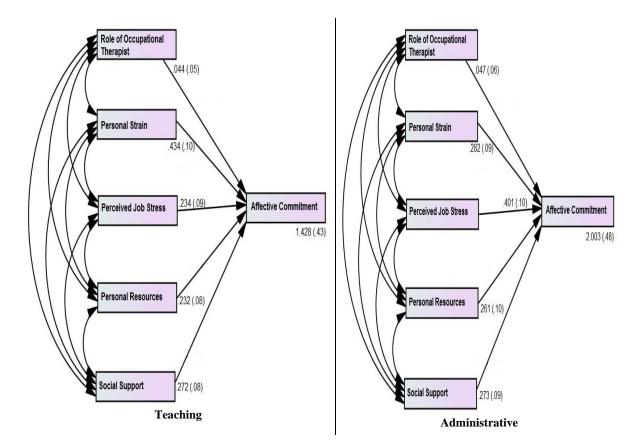
a. Faculty = 1.0 - Teaching

a'. Faculty = 2.0 - Administrative

b. Dependent Variable: Affective Commitment

c. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

The model summary reflects that 42% of the variation in the dependent variables is explained by variations in the predictors (Table 5.52). Moreover, the explanatory power is acceptable, as the value is statistically significant (Table 5.53).



# Figure 5. 14: Multiple regressions on the affective commitment in contrasting faculties.

|              |                         | Unstand<br>Coeffi | lardized<br>cients | Standardized<br>Coefficients |       |      |
|--------------|-------------------------|-------------------|--------------------|------------------------------|-------|------|
| Model        |                         | В                 | Std.<br>Error      | Beta                         | т     | Sig. |
|              | (Constant)              | 1.428             | .437               |                              | 3.268 | .001 |
| Teaching     | Role of<br>Occupational | .044              | .055               | .050                         | .789  | .431 |
| Non-teaching | Therapist               | .047              | .066               | .048                         | .715  | .475 |
| Teaching     | Personal<br>Strain      | .434              | .100               | .355                         | 4.354 | .000 |
| Non-teaching | -                       | .282              | .097               | .244                         | 2.907 | .002 |
| Teaching     | Perceived<br>Job Stress | .234              | .095               | .200                         | 2.452 | .015 |
| Non-teaching | -                       | .401              | .102               | .303                         | 3.933 | .000 |
| Teaching     | Personal<br>Resources   | .232              | .083               | .290                         | 2.795 | .007 |
| Non-teaching |                         | .261              | .100               | .254                         | 2.612 | .041 |

 Table 5. 54: Coefficients<sup>a, a,' b</sup>

| Teaching     | Social<br>Support | .272 | .087 | .217 | 3.126 | .004 |
|--------------|-------------------|------|------|------|-------|------|
| Non-teaching |                   | .273 | .099 | .245 | 2.756 | .006 |

a'. Faculty = 2.0 - Administrative

b. Dependent Variable: Affective Commitment

The statistical tests confirmed that the affective commitment of the teaching and administrative staff is not statistically significantly affected by the role of occupational therapist. There is no evidence against a null hypothesis and, therefore, it cannot be rejected (=0.431 > 0.05,  $p > \alpha$ ; =0.475 > 0.05,  $p > \alpha$ ; Table 5.54). This is a new development, as there is no previous study that has explored this dimension. However, considering the non-teaching as operational layer, this study indirectly supports Haque and Aston (2016). Personal strain has a statistically significant effect on the contrasting faculty staff working at the public universities. There is strong evidence against a null hypothesis and, therefore, it is rejected (=0.000 < 0.05,  $p < \alpha$ ; =0.002 < 0.05,  $p < \alpha$ ; Table 5.54). In other words, personal strain is a significant determinant in relation to the affective commitment of the teaching and non-teaching staff. Interestingly, personal strain has a high statistically significant effect, on the AC of teaching staff, while personal strain has a relatively significant effect on the AC of non-teaching staff. This again is a new development, however, when considering the administrative as operational layer, this study partially supports Haque and Yamoah (2014) and Haque and Aston (2016). Additionally, perceived job stress, personal resources and social support are evident to be statistically significant in determining the affective commitment of the teaching and administrative staff (PJS=0.015 < 0.05,  $p < \alpha$ ; =0.000 < 0.05,  $p < \alpha$ ; PR=0.007 < 0.05,  $p < \alpha$ ; =0.041 < 0.05,  $p < \alpha$  $\alpha$ ; SS=0.004 < 0.05,  $p < \alpha$ ; =0.006 < 0.05,  $p < \alpha$ ; Table 5.54). These are all new developments of the present study.

| Table | 5. | 55: | Model | Summary <sup>a,c</sup> |
|-------|----|-----|-------|------------------------|
|-------|----|-----|-------|------------------------|

| Model | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1     | .437 <sup>b</sup> | .419     | .371              | 1.18602                    |
| 2     | .450 <sup>b</sup> | .420     | .382              | 1.20737                    |

a. Faculty: 1=Teaching and 2=Administrative

b. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

c. Dependent Variable: Normative Commitment

| Mode | 1          | Sum of Squares | Df  | Mean Square | F      | Sig.              |
|------|------------|----------------|-----|-------------|--------|-------------------|
| 1    | Regression | 65.861         | 5   | 13.172      | 9.364  | .000 <sup>c</sup> |
|      | Residual   | 279.993        | 199 | 1.407       |        |                   |
|      | Total      | 345.854        | 204 |             |        |                   |
| 2    | Regression | 73.263         | 5   | 44.050      |        |                   |
|      | Residual   | 290.142        | 199 | 14.653      | 10.052 | .000°             |
|      | Total      | 363.405        | 204 | 1.458       |        |                   |

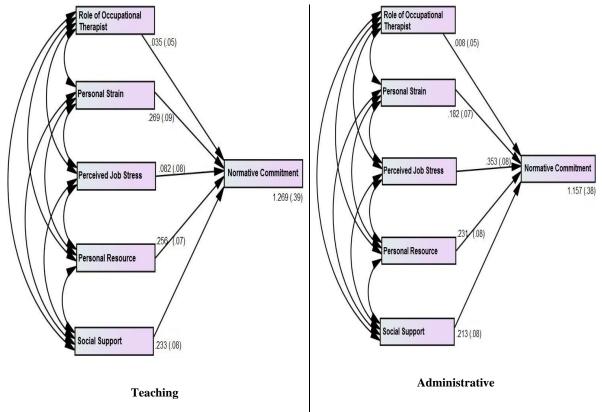
Table 5. 56: ANOVA<sup>a,b, a' b</sup>

a'. Faculty = 2.0 - Administrative

b. Dependent Variable: Normative Commitment

c. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

The model summary confirmed that a variation over 40% in normative commitment is predicted by the variables of interest through this model (Table 5.55). In addition, the F-score reflects an acceptable explanatory power, as the significance value is statistically significant.





|  | Unstandardized<br>Coefficients |            | Standardized<br>Coefficients |       |      |
|--|--------------------------------|------------|------------------------------|-------|------|
| Model                                      | В                              | Std. Error | Beta                         | Т     | Sig. |
| (Constant)                                 | 1.269                          | .398       |                              | 3.190 | .002 |
| Teaching Role of Occupational<br>Therapist | .035                           | .050       | .046                         | .697  | .487 |
| Non-<br>teaching                           | .008                           | .053       | .010                         | .153  | .878 |
| Teaching Personal Strain                   | .269                           | .091       | .254                         | 2.963 | .003 |
| Non-<br>teaching                           | .182                           | .078       | .181                         | 2.333 | .003 |
| Teaching Perceived Job Stress              | .082                           | .087       | .081                         | .948  | .344 |
| Non-<br>teaching                           | .353                           | .082       | .331                         | 4.299 | .000 |
| Teaching Personal Resources                | .256                           | .076       | .263                         | 3.368 | .000 |
| Non-<br>teaching                           | .231                           | .080       | .253                         | 2.872 | .005 |
| Teaching Social Support                    | .233                           | .080       | .246                         | 2.927 | .004 |
| Non-<br>teaching                           | .213                           | .080       | .215                         | 2.663 | .002 |

 Table 5. 57: Coefficients<sup>a, a,' b</sup>

a'. Faculty = 2.0 - Administrative

b. Dependent Variable: Normative Commitment

The statistical test confirmed that there is no statistically significant role played by the occupational therapist in determining the normative commitment of teaching and non-teaching staff at university level. Hence, there is no significant evidence against a null hypothesis (=0.487 > 0.05,  $p > \alpha$ ; =0.878 > 0.05,  $p > \alpha$ ; Table 5.57). This is a new development, as there is no evidence of this in previous research. Perceived job stress is evident to be statistically significant for administrative staff, whereas it is non-significant for teaching staff (=0.000 < 0.05,  $p < \alpha$ ; =0.344 > 0.05,  $p > \alpha$ ; Table 5.57). Hence, this reflects that perceived job stress is highly significant in affecting the normative commitment of non-teaching staff, while it has no role in determining the NC of teaching staff. Again, there is no evidence regarding it, but the

study partially contradicts Haque and Aston (2016) in that the commitment of operational level employees is significantly affected by perceived job stress. Interestingly, personal strain, personal resources and social support have a statistically significant impact on the normative commitment of teaching and administrative staff at public universities (Teaching staff: PS=.003 < 0.05,  $p < \alpha$ ; PR=0.000 < 0.05,  $p < \alpha$ ; SS=.004 < 0.05,  $p < \alpha$ ; Non-teaching staff: PS=.003 < 0.05,  $p < \alpha$ ; PR=0.000 < 0.05,  $p < \alpha$ ; SS=.002 < 0.05,  $p < \alpha$ ; Table 5.57). Thus, there is strong evidence against a considered null hypothesis and, therefore, it is rejected. There is no evidence from empirical research about this and, therefore, it is a new development. Nevertheless, Haque and Aston (2016) is partially confirmed regarding taking administrative staff as operational level employees.

| Table | 5. | 58: | Model | Summary <sup>a,c</sup> |
|-------|----|-----|-------|------------------------|
|-------|----|-----|-------|------------------------|

| Model | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1     | .445 <sup>b</sup> | .420     | .378              | 1.29170                    |
| 2     | .522 <sup>b</sup> | .472     | .454              | 1.33356                    |

a. Faculty: 1=Teaching and 2=Administrative

b. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

c. Dependent Variable: Continuance Commitment

| Model |            | Sum of Squares | Df  | Mean Square | F      | Sig.              |
|-------|------------|----------------|-----|-------------|--------|-------------------|
| 1     | Regression | 81.5446        | 5   | 16.309      | 9.774  | .000 <sup>c</sup> |
|       | Residual   | 332.132        | 199 | 1.669       |        |                   |
|       | Total      | 413.676        | 204 |             |        |                   |
| 2     | Regression | 131.787        | 5   | 24.357      |        |                   |
|       | Residual   | 353.822        | 199 |             | 14.821 | .000°             |
|       | Total      | 485.609        | 204 | 1.770       |        |                   |

Table 5. 59: ANOVA<sup>a,b, a' b</sup>

a. Faculty = 1.0 - Teaching

a'. Faculty = 2.0 - Administrative

b. Dependent Variable: Continuance Commitment

c. Predictors: (Constant), Social Support, Personal Strain, Role of Occupational Therapist, Perceived Job Stress, Personal Resources

Approximately over 40% variations in continuance commitment are explained by the predictors in this model (Table 5.58). Moreover, the explanatory power is acceptable because the sig-value is less than alpha, reflecting statistical significance. In other words, the model is a good fit for the data (Table 5.59).

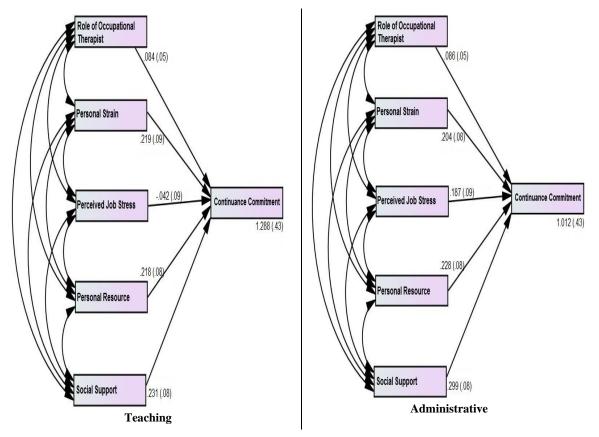


Figure 5. 16: Multiple regressions on the continuance commitment in contrasting faculties.

| Table 5. 60: Coefficients <sup>4, 4, 4</sup> | Table | 5.60: | Coefficients <sup>a, a,' b</sup> |
|--|-------|-------|----------------------------------|
|--|-------|-------|----------------------------------|

|  | Unstandardized<br>Coefficients |            | Standardized<br>Coefficients |       |      |
|--|--------------------------------|------------|------------------------------|-------|------|
| Model                                      | В                              | Std. Error | Beta                         | Т     | Sig. |
| (Constant)                                 | 1.288                          | .433       |                              | 2.972 | .003 |
| Teaching Role of Occupational<br>Therapist | .084                           | .055       | .101                         | 1.535 | .126 |
| Non-<br>teaching                           | .086                           | .059       | .095                         | 1.465 | .144 |
| Teaching Personal Strain                   | .219                           | .099       | .210                         | 2.212 | .002 |

| Non-<br>teaching              | .204 | .087 | .119 | 2.345 | .002 |
|-------------------------------|------|------|------|-------|------|
| Teaching Perceived Job Stress | 042  | .095 | 038  | 446   | .656 |
| Non-<br>teaching              | .187 | .091 | .152 | 2.064 | .040 |
| Teaching Personal Resources   | .218 | .083 | .224 | 2.631 | .009 |
| Non-<br>teaching              | .228 | .089 | .216 | 2.569 | .011 |
| Teaching Social Support       | .231 | .087 | .223 | 2.659 | .008 |
| Non-<br>teaching              | .299 | .088 | .287 | 3.381 | .001 |

a'. Faculty = 2.0 - Administrative

b. Dependent Variable: Continuance Commitment

The results showed that the role of the occupational therapist does not have a statistically significant effect on the continuance commitment of teaching and administrative staff at public universities in the UK and Pakistan (=0.126 > 0.05,  $p > \alpha$ ; =0.144 > 0.05,  $p > \alpha$ ; Table 5.60). Hence, a null hypothesis cannot be rejected. This is again a new development. However, when considering administrative employees as an operational layer of management, the present findings support Haque and Aston (2016). Perceived job stress has a statistically significant effect on the continuance commitment of non-teaching staff but has a non-significant impact on the teaching staff's CC (=.040 < 0.05,  $p < \alpha$ ; =.656 < 0.05,  $p > \alpha$ ; Table 5. 60). Personal strain, personal resources and social support are evident to have a statistically significant role in determining the continuance commitment of the contrasting faculties. Thus, null hypotheses are rejected (Teaching staff: PS=.002 < 0.05,  $p < \alpha$ ; PR=0.009 < 0.05,  $p < \alpha$ ; SS=.008 < 0.05,  $p < \alpha$ ; Table 5. 60). This is a new development, but it partially supports Haque and Aston (2016).

Table 5. 61: Group Statistics

| Faculty N Mean Std. Deviation Varia | Faculty |
|-------------------------------------|---------|
|-------------------------------------|---------|

| Representation of      | Teaching         |     | .3645  | .26694 | .071 |
|------------------------|------------------|-----|--------|--------|------|
| Occupational Therapist | rodoning         | 204 | 10010  | .20001 |      |
|                        |                  |     |        |        |      |
|                        | Non-             | 202 | .3379  | .23335 | .054 |
|                        | teaching         | 202 | .0079  | .20000 |      |
| Effectiveness of       | Teaching         |     | 3.8350 | 1.7123 | 2.93 |
| Occupational Therapist |                  | 204 |        |        |      |
|                        |                  |     |        |        |      |
|                        | Non-<br>teaching | 202 | 3.0082 | 1.6975 | 2.88 |
|                        |                  |     |        |        |      |
| Personal Strain        | Teaching         | 204 | 3.7810 | 1.2298 | 1.51 |
|                        |                  | 204 |        |        |      |
|                        | Non-             |     |        |        |      |
|                        | teaching         | 202 | 3.8480 | 1.3106 | 1.71 |
| Perceived Job Stress   | Tapphing         | 204 | 3.7525 | 1.2875 | 1.69 |
| Perceived Job Stress   | Teaching         | 204 | 3.7525 | 1.2075 | 1.09 |
|                        |                  |     |        |        |      |
|                        | Non-             | 202 | 3.8007 | 1.2505 | 1.56 |
|                        | teaching         | 202 | 3.0007 | 1.2505 | 1.50 |
| Personal Resources     | Teaching         | 204 | 3.6569 | 1.4621 | 2.13 |
|                        |                  |     |        |        |      |
|                        | Non-<br>teaching |     |        |        |      |
|                        | g                |     |        |        |      |
|                        |                  | 202 | 3.3775 | 1.4612 | 2.13 |
| Social Support         | Teaching         | 204 | 3.9583 | 1.3760 | 1.89 |
|                        |                  |     |        |        |      |
|                        | Non-<br>teaching |     |        |        |      |
|                        | teaching         | 202 | 3.4608 | 1.4850 | 2.20 |
| Affective Commitment   | Teaching         | 204 | 3.6275 | 1.6559 | 2.74 |
|                        | 5                |     |        |        |      |
|                        |                  |     |        |        |      |
|                        | Non-             | 202 | 3.9412 | 1.5017 | 2.25 |
|                        | teaching         |     |        |        |      |
| Normative Commitment   | Teaching         | 204 | 3.5735 | 1.3351 | 1.78 |
|                        |                  |     |        |        |      |
|                        | Mar              |     | 0.0570 |        |      |
|                        | Non-<br>teaching | 202 | 3.8578 | 1.3024 | 1.69 |
|                        | 5                |     |        |        |      |
| Continuance Commitment | Teaching         | 204 | 3.6127 | 1.4244 | 2.02 |
|                        |                  | 201 | 0.0127 |        | 2.52 |
|                        |                  |     |        |        |      |
|                        | Non-             | 202 | 3.3873 | 1.5439 | 2.38 |
|                        | teaching         | 202 | 3.3013 | 1.0439 | 2.30 |
|                        | locoming         |     |        |        |      |

The third dimension is faculty where visibility, preference and usage are examined in this research. Teaching and administrative staff from the UK and Pakistan were targeted. The results revealed that the rate of representation of the occupational therapist at university is highly visible among administrative staff, in contrast to teaching staff (=3.379 < .3645, Table 5.61). In addition, the effectiveness of the occupational therapist is highly evident among non-teaching staff in comparison to teaching staff, as the mean value is significantly lower reflecting a higher visibility of effectiveness (=3.0082 < 3.8350, Table 5.61). The mean difference is also significant, reflecting the comparison in terms of visibility is higher. Interestingly, personal strain and perceived job stress are higher among teaching staff, in contrast to administrative staff.

The results showed that a higher level of personal strain is visible among teaching staff (=3.7810 < 3.8480, Table 5.61). In addition, perceived job stress is also highly visible among teaching staff in comparison to administrative staff (=3.7575 < 3.8007, Table 5.61). Personal resource and social support are higher among non-teaching staff. This further confirms that the ability to cope effectively with personal strain and job-related stress is very much dealt with by use of personal resources and social support at workplace by administrative staff. The usage of personal resources among non-teaching staff is highly visible, in contrast to teaching staff (=3.3775 < 3.6569, Table 5.61). Furthermore, social support is also effectively used at the workplace by non-teaching staff, in comparison to teaching staff (=3.4608 < 3.9583, Table 5.61). Moreover, organisational commitment was examined within the contrasting faculties and results showed that overall organisational commitment is higher among administrative staff, in contrast to teaching staff. Interestingly, AC and NC are highly visible in teaching staff, whereas CC is higher among non-teaching staff. A further, detailed analysis revealed that continuance commitment is highly visible, followed by normative and affective commitment (teaching-CC=3.3873 < 3.6127, non-teaching-NC=3.5735 < 3.578, non-teaching-AC=3.6275 < 3.9412, Table 5.61).

After attaining numerical expression for the variables of interest, the researcher explored the research phenomenon in a qualitative way. Below are the interview findings and discussion.

### **5.3 Interview Findings and Discussion**

| PAKISTAN |        | UNITED KINGDOM |        |       |
|----------|--------|----------------|--------|-------|
| Male     | Female | Male           | Female | Total |

| Teaching     | 13 | 12 | 12 | 12 | 49 |
|--------------|----|----|----|----|----|
| Non-teaching | 12 | 12 | 12 | 13 | 49 |
| Total        | 25 | 24 | 24 | 25 | 98 |

Figure 5. 17: Frequency of interview respondents in contrasting economies.

A total of 98 respondents participated in the qualitative interviews. It was ensured that 50% each in terms of countries, gender and faculty are included as shown above.

Analysis revealed that staff of the UK were more experienced than teaching staff in Pakistan, whereas the non-teaching staff had a higher number of relatively inexperienced by comparison with teaching staff. Female respondents had less (3-5 years) experience and were in their mid 30s to early 40s, whereas males had higher (9-12 years) experience and were in their 40s to mid-50s.

As part of the attitudinal questions, the respondents were asked about their feelings regarding their jobs. Results showed that an overall majority were satisfied (82%). However, the teaching staff were more satisfied about their job role compared with non-teaching staff (88% against 76%).

Females were more satisfied than males (89% against 76%). However, when considering the variation within the countries, Pakistani teaching staff were more satisfied than non-teaching (92% against 75%) while in terms of gender there is not much variation between males and female's satisfaction (88% against 89%). In the UK, there is no significant overall difference between teaching and non-teaching staff (76% against 75%) but males were more satisfied about their job roles (87% against 64%).

# 5.3.1 Most likely job feature

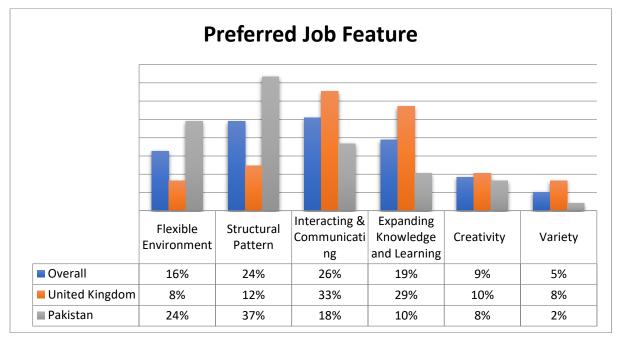


Figure 5. 18: Free Text comments addressing most liked job-features at the public universities in Pakistan and the UK.

From the above figure, it is evident that 'interacting and communicating' and 'expanding knowledge and learning' are two of the liked job-features that are higher in the UK than Pakistan. On the other hand, 'structural pattern' and 'flexible environment'are most liked job-feature in Pakistan than the UK. It reflects there are differences in two distinctive economies. In both economies the liked job-features are different. However, the similar liked job-feature in both economies is 'creativity'.

**Pakistani (teaching staff) respondent 1:** "Course structure. It is set pattern. I like such stable routine" (See Appendix A)

**UK (teaching staff) respondent 1:** "Interacting with people. It does not stop you at one point in life. It keeps you going as you have opportunities to grow. Help others in careers" (See Appendix A)

**Pakistani (teaching staff) respondent 2:** *"Flexible Style and Social Environment. It gives me a peace of mind" (See* Appendix A)

**UK (teaching staff) respondent 2:** "*It's really about interacting by helping students to achieve goals. Sort of enhancing their careers*" (*See* Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 1:** *"Flexible environment. There is no pressure. We work as a team" (See* Appendix A)

**UK (non-teaching - administrative staff) respondent 1:** "*Interacting with students. That's is what I am here for and I enjoy it" (See* Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 2:** *"Healthy Environment. There is no work pressure" (See* Appendix A)

**UK (non-teaching - administrative staff) respondent 2:** "Dealing with students. I am into customer services for long and I like to communicate with students" (See Appendix A)

Pakistani male: "Structural work. Changes usually irritate me" (See Appendix A)

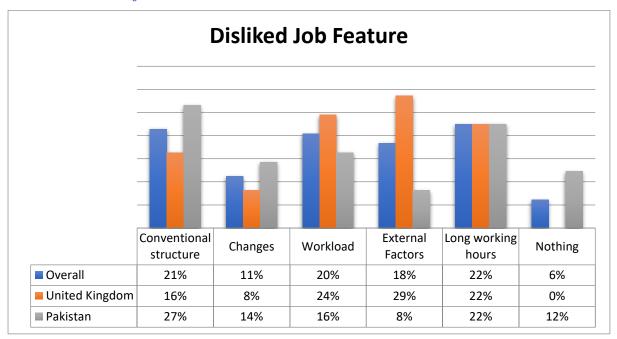
UK male: "Intellectual activities. Sharing Knowledge" (See Appendix A)

**Pakistani female:** "Interacting with students. Opportunity to communicate ideas. Ideas are communicated. This position offers me a chance to interact and learn more" (See Appendix A)

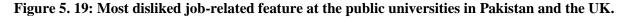
**UK female:** "*I like when any student achieves something great. I talk to my students. Since I give knowledge to students and support them become better*" (See Appendix A)

Here respondents had been asked about the most liked job feature and, overall, the responses showed that the majority stated, "*interacting and communicating*" (26%), followed very closely by "*structural pattern*" (24%) and "*expanding knowledge and learning*" (19%). In terms of faculty, teaching staff very much liked "*expanding knowledge and learning*" (33%), while non-teaching staff preferred "*structural pattern*" (41%). Additionally, when considering gender, the results revealed that females liked "*interacting and communicating*" (27%), while males preferred "*structural pattern*" (29%). Nevertheless, from the perspective of the

contrasting economies, it was revealed that in Pakistan, "structural pattern" (37%), followed by "flexible environment" (24%) and "interacting and communicating" (18%) were the most liked job features. Teaching staff stated that "interacting and communicating" was their most liked job feature (32%), while administrative staff preferred "structural pattern" (58%). Moreover, females preferred "flexible environment" and "structural pattern" equally (30% each), (features which are implicitly opposing) while males preferred "flexible environment" (44%). In the UK, the preference was for "interacting and communication" (33%), followed closely by "expanding knowledge and learning" (29%) and "structural pattern" (12%). Teaching staff specified "expanding knowledge and learning" (54%), whereas non-teaching staff preferred "interacting and communicating" (28% against 29%), followed by "interacting and communicating" (33% against 32%).



### 5.3.2 Most disliked job attribute



**Pakistani (teaching staff) respondent 1:** "Lack of practical exposure for students. Following traditional text book is not good idea" (See Appendix A)

**UK** (teaching staff) respondent 1: "Office Politics. I don't feel comfortable in such situations. Came here to making human beings better but this way it is not possible" (See Appendix A) **Pakistani (teaching staff) respondent 2:** "Unnecessary rigid structure. Same modules, same way of assessing. I want practical based learning for my students" (See Appendix A)

**UK (teaching staff) respondent 2:** "*Marking scripts... structuring reports. I can't read writing, especially international students' writing*" (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 1:** "Its casual type. I don't like unreliable environment. There is uncertainty. When they need you they involve you else [they do] not ask you" (See Appendix A)

**UK (non-teaching - administrative staff) respondent 1:** "*Making everyone happy. There is politics most of the time*" (See Appendix A)

**Pakistani** (non-teaching - administrative staff) respondent 2: "Rigid policies. High dependence on others for small things" (See Appendix A)

**UK (non-teaching - administrative staff) respondent 2:** *"Too much other factors like coming from far away" (See* Appendix A)

**Pakistani male:** *"Many things but mostly orthodox way of teaching. High restrictions on trying different things"* (See Appendix A)

**UK male:** "I think moving to online. Marking too much severe... Less paper work. I am a person who likes to have paper rather than looking at screen at the time. Even the travel from Kent to make it is another factor" (See Appendix A)

**Pakistani female:** "Structural and traditional pattern. I want experimentation, so I and students do not get bored" (See Appendix A)

**UK female:** "*Changes, Pressure from government. The policies of the government are changing and more people are moving so participation is getting lower*" (*See* Appendix A)

Respondents were asked about their most disliked job feature and their overall responses showed that "long working hours" (22%), followed by "conventional structure" (21%) and "workload" (20%) were the most disliked. Teaching staff very much disliked "long working" hours", while non-teaching staff identified "workload" as the most disliked (24% and 22%). Interestingly, males considered "long working hours" (24%), whereas females stated that "conventional structure" and "long working hours" were their most disliked job features (20% each). In depth-analysis revealed that, in Pakistan, "conventional structure" is a highly disliked job attribute (27%). Teaching staff identified "conventional structure" (32%) and "Long working hours" as their most disliked job attributes, whereas non-teaching staff identified "workload" (25%). Interestingly, males reported "long working hours" and "conventional structure" as equally disliked features (28%), followed by "changes" and "workload" (16%), whereas females identified "conventional structure" (25%). Interestingly, females, especially in the teaching faculty, stated "nothing" (21%), reflecting that females, in contrast to males are less dissatisfied. On the other hand, in the UK, "external factors" are the most disliked jobrelated feature (29%). Teaching staff considered "workload" (29%), followed by "external factors" and "long working hours" (25%) as their most disliked job-related features, while non-teaching staff identified "external factors" (32%).

The occupational classification of employees reflects that perhaps male enjoy more competitive games (Yee, 2017), while females find it more distasteful (Deng et al., 2016). It could be argued that disliked features could be due to respondents' understanding and interpretation of the situation (Deng et al, 2016). Academic and non-academic staff differ noticeably, and it could be said that it takes years for academics to establish their place while it is not as difficult for the non-academics. Perhaps, this could also be a contributing factor for the distinctions we noted. Males, in contrast to females, scored higher in identifying "*external factors*" (29% against 28%), partially supporting Mark and Smith (2018), Haque *et al.*, (2018) and Haque and Aston (2016) because all attributes are evident to some extent, contributory to stress.

### 5.3.3 Dislike feature affecting university staff

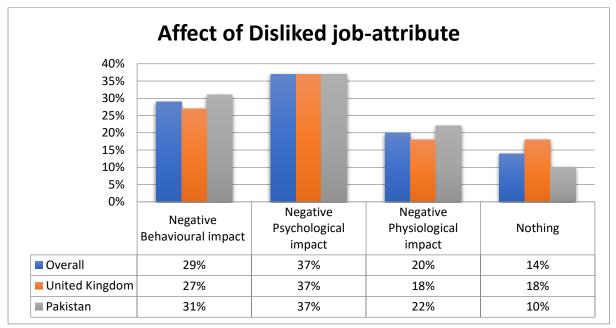


Figure 5. 20: Dislike feature affecting employees at the public universities.

Pakistani (teaching staff) respondent 1: "Emotional disbalance at times" (See Appendix A)

**UK (teaching staff) respondent 1:** "De-motivated. At times pessimistic thoughts occur" (See Appendix A)

**Pakistani (teaching staff) respondent 2:** *"I think efficiency declines. My mind is disturbed"* (See Appendix A)

**UK (teaching staff) respondent 2:** "Yes, if I can't read English of poor structure I feel agitated" (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 1:** *"I have irritation. Sometimes I am moody" (See* Appendix A)

**UK (non-teaching - administrative staff) respondent 1:** "All the time feel worrying about things" (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 2:** *"Efficiency comes down. I have disturbed sleep pattern. My mood is affected" (See* Appendix A)

**UK (non-teaching - administrative staff) respondent 2:** "Yes, efficiency affects. It is mostly fatigue" (See Appendix A)

Pakistani male: "Feel irritation. Mood swings" (See Appendix A)

**UK male:** "It certainly does, especially when systems doesn't work. I often feel angry and it is demoralizing when system stops working. I lash out on others. It's not good thin later when I realize my mistake I say sorry to people I misbehaved with" (See Appendix A)

**Pakistani female:** "I have psychological depression. I feel stress negatively affects me" (See Appendix A)

**UK female:** "Yes, I get upset. Become moody" (See Appendix A)

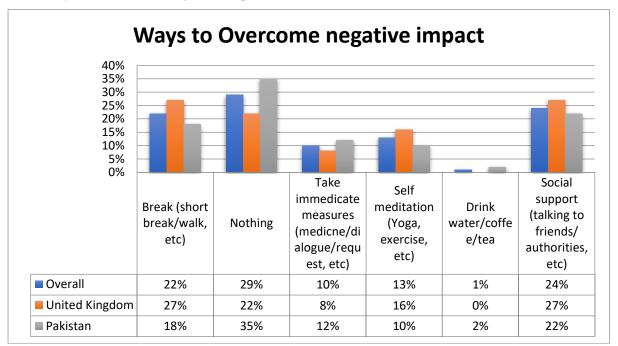
After identifying the disliked job feature, participants were asked about its impact on their working pattern. In both countries, disliked job features leave a negative psychological impact on the majority of the public university personnel (37%). Furthermore, this is followed by negative behavioural impact (29%). The negative behavioural impact is higher in Pakistan, in contrast to the UK (31% against 27%). Overall, teaching staff reported a higher negative psychological impact, whereas non-teaching staff reported a negative physiological impact (53% against 33%). Interestingly, the majority of females stated a negative psychological impact (47%), whereas males reported behavioural impact (31%). Our analysis suggests that the negative psychological impact is high in both Pakistan and the UK (54% against 52%), followed by negative behavioural impact (29% against 36%). The majority of non-teaching staff in Pakistan reported negative physiological impact, in contrast to the UK (38% against 28%). Interestingly, the results show that non-teaching staff in Pakistan have stated "negative behavioural impact" as the second highest impact (25%), whereas in the UK, "nothing" is how non-teaching staff answer (28%).

Women in the UK reported more negative psychological impact than those in Pakistan (48% against 46%), though the differences are very slight; this was followed by negative behavioural impact, slightly higher among Pakistani females, compared with the UK (29% against 24%). In Pakistan, the the majority of males reported "negative physiological impact" and "negative

behavioural impact" equally (32%), while for the UK the respective proportions were 29% and 25% respectively.

Thus, there are variations in terms of gender and faculty, as psychological impact was reported by teaching- while higher physiological and behavioural impacts are reported by non-teaching staffs. The males have reported higher negative behavioural and physiological impacts, while females reported higher negative psychological impact.

Since administrative work is more related to desk work, it may be to be expected that physiological impacts are more likely to be reported than for teaching staff who will be more engaged in high-level mental work from which we can infer a likelihood of 'psychological impacts'. The present findings support, to some extent, Haque and Aston (2016). Interestingly, physical and psychological impacts are reported in the UK too and, thus, this study supports Mark and Smith (2018).



## 5.3.4 Ways to overcome negative impact

Figure 5. 21: Ways to overcome negative impact.

**Pakistani (teaching staff) respondent 1:** *"Yes, I talk to my friends, it helps me feel relaxed" (See* Appendix A)

**UK (teaching staff) respondent 1:** *"I have sporting background. Sometimes I go for run, gym, exercise etc."* (See Appendix A)

**Pakistani (teaching staff) respondent 2:** "I discuss my issues with my close ones. Being social helps me overcome it" (See Appendix A)

**UK (teaching staff) respondent 2:** *"Personally I do all to keep stable mind. I don't have colleagues to talk but I do sport etc"* (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 1:** "*I go out for a break. I know I can't do much. I told you I am helpless to object*" (See Appendix A)

**UK** (non-teaching - administrative staff) respondent 1: "We talk to others. All are in same boat. Structuring it to see if we come over it" (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 2:** *"I take medication. I regularly take co-renetic so my BP remains stable" (See* Appendix A)

**UK (non-teaching - administrative staff) respondent 2:** *"I take break. I have backache issue" (See* Appendix A)

**Pakistani male:** "*I go to therapist once every 15th day. Physiotherapy is effective, especially in growing age*" (*See* Appendix A)

UK male: "You can chat with colleagues. Stress release due to social chat" (See Appendix A)

**Pakistani female:** "The best way of getting out of my depression is talk to someone. It helps in releasing stress" (See Appendix A)

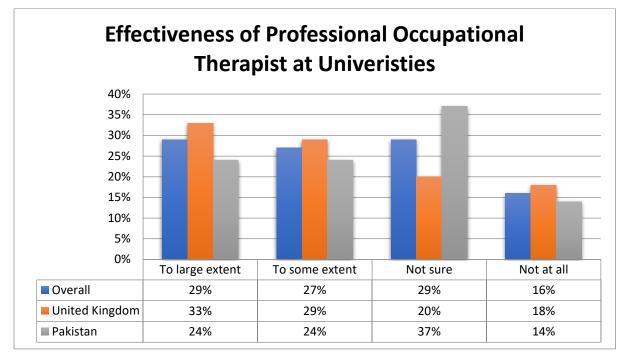
**UK female:** "I talk to my close ones. It just helps me" (See Appendix A)

Overall, the majority of university staff reported *doing nothing* to overcome negative behavioural, psychological and physiological impacts (29%). The proportion further increased in Pakistan (35%). However, participants reported social support, breaks, meditation and immediate measures to some extent are ways to deal with stress. The comparative analysis revealed that in the UK, social support, breaks and meditation are reported more in contrast to Pakistan, (27% against 22%; 27% against 18%; and 16% against 13%). Interestingly, overall,

non-teaching staff reported using social support and breaks more often than teaching staff (29% against 20%; and 27% against 18%), whereas self-meditation is reported higher by teaching staff, in contrast to non-teaching staff (18% against 8%). In terms of gender, overall social support is highly regarded by females, in contrast to their counterparts (31% against 18%). Similarly, breaks and self-meditation are reported higher by females than males (24% against 20%; and 16% against 10%).

The proportion of males stating "nothing" is higher (35% against 22%) and immediate measures such as medicines, direct dialogues, requests are reported higher by males in contrast to females (14% against 6%). Nevertheless, earlier, this study identified that males had a higher score in negative behavioural and physiological impacts and now the use of less social support and a higher ratio of doing 'nothing' further confirms that females reported less negative behavioural and physiological symptoms than males, owing to the effective use of social support. This study largely supports Haque *et al.*, (2018), Haque *et al.*, (2016) and Haque and Aston (2016), while partially supporting Mark and Smith (2018).

The variations are further examined in the distinctive economies. In Pakistan, it is reported that social support is effectively used by teaching staff, in contrast to non-teaching staff, (24% against 21%). On the other hand, breaks and immediate measures are reported clearly higher by non-teaching staff, in contrast to teaching staff (21% against 16%; and 21% against 4%). Additionally, Pakistani females reported using social support and breaks more, in contrast to their counterparts, in dealing with the negative impacts of disliked job attribute (33% against 12%; and 25% against 12%). In contrast, males reported often taking immediate measures to deal with this (20% against 4%). On the other hand, within the UK, non-teaching staff reported using social support more effectively to overcome the negative impacts of disliked job attribute, in contrast to teaching staff (36% against 17%) followed by breaks (32% against 21%). On the other hand, self-meditation, such as yoga, exercise, listening to music, engaging oneself in something, are more commonly reported by teaching staff than non-teaching staff (21% against 12%). Moreover, females reported using social support and self-meditation more effectively than their counterparts (28% against 25%; and 20% against 13%). On the other hand, males reported often regularly take breaks in order to deal with the negative impact of job attributes, in contrast to females (29% against 24%). The findings are interesting, as the faculty in the contrasting economies vary at length but in terms of gender, it is confirmed that social support is more effectively used by the females in dealing with the stressors. Thus, this study largely supports Haque et al., (2018), Haque et al., (2016) and Haque and Aston (2016).



### 5.3.5 Rate and effectiveness of the Occupational Therapist

Figure 5. 22: Effectiveness of the Occupational therapist.

Pakistani (teaching staff) respondent 1: "To some extent" (See Appendix A)

**UK (teaching staff) respondent 1:** "I believe to some extent. I find it effective. Helps you overcome issues" (See Appendix A)

**Pakistani (teaching staff) respondent 2:** *"To some extent. It much brings positive dependent in workers" (See* Appendix A)

**UK** (teaching staff) respondent 2: "It's Ok. Low but for time being it should be effective in helping people to some extent" (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 1:** "No. its personal ability to overcome your ongoing stress" (See Appendix A)

**UK** (non-teaching - administrative staff) respondent 1: "I don't think these occupational therapists can help at all. It's yourself that you will find solution to your problem" (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 2:** "*A very little but not much because I think only change in setup can help*" (See Appendix A)

**UK (non-teaching - administrative staff) respondent 2:** *"No. It is not effective at all" (See* Appendix A)

**Pakistani male:** *"No. If it was, I wouldn't have used pills. They just sit to talk"* (See Appendix A)

**UK male:** "In order to be effective, it has to be communicated. Like tell us and at present, it is not communicated well. Depends on type of person, extrovert might open and find it effective. I won't easily open I don't think it is going to be effective" (See Appendix A)

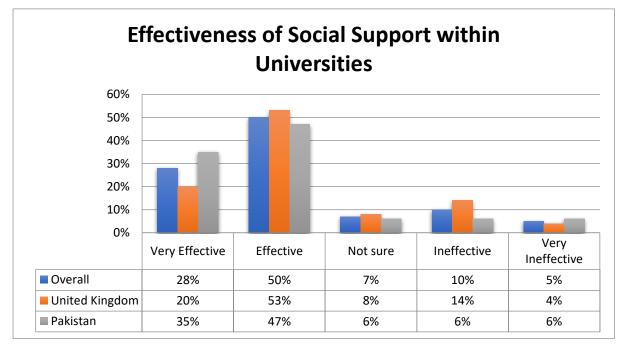
**Pakistani female:** "Certainly can be effective. Professionals always help professionals to better" (See Appendix A)

**UK female:** *"Yes, I have used in another institution and it's very useful. It provides immediate solution" (See* Appendix A)

In this study, the respondents were asked about the presence of professional occupational therapists at the university; higher in the UK (a developed economy) than in Pakistan (developing economy). Additionally, it is also evident that "no representation" of the professional occupational therapist is higher at the universities in Pakistan, in contrast to the UK (37% against 12%). In addition, in this regard, the qualitative findings support the earlier quantitative findings. Hence, the study is aligned with Haque and Aston (2016) in that the rate of representation of occupational therapist is relatively low in the emerging economy, in contrast to the developed economy. However, their work was carried out in the private IT sector and now the same findings have been confirmed in the public education sector. This is a new development of the present study. Non-teaching staff had a higher score than teaching staff regarding no representation (27% against 22%). Moreover, males had a higher score in contrast to females (29% against 20%). Nevertheless, traces of the rate of representation of occupational therapist are evident, to a certain extent, in contrasting economies.

Since, the rate of representation is evident, to a certain extent thus, the effectiveness is measured. It is evident that an overall majority of the respondents confirmed the effectiveness

of the professional occupational therapist (29%); however, the UK (developed economy) had a higher score than Pakistan (emerging economy). Nevertheless, overall, teaching staff reported the role of the occupational therapist more effective, in contrast to non-teaching staff (31% against 22%), whereas males, in contrast to females, reported it ineffective in reducing stressors (27% against 6%). Thus, overall, to some extent occupational therapist role is effective but females reported it more effective than males. Since, the teaching staff earlier identified negative psychological impact higher while negative behavioural and physiological impacts were identified by non-teaching. Same was evident in case of gender as males stated latter two and females attributed psychological thus the effectiveness is also higher for females and teaching staff because the professional therapist is mainly involved in improving the psychological aspects. In other words, the employees, having psychological symptoms perceived the role of the occupational therapist more effective, while employees with behavioural and physiological symptoms found it less effective.



### 5.3.4 Awareness and effectiveness of Social Support at workplace

Figure 5. 23: Social support and effectiveness of the social support.

**Pakistani (teaching staff) respondent 1:** "Yes. Social orientation and support to improve well-being. Yes. Yes. When I am unable to come I do get support from faculty. They understand my concerns. Yes" (See Appendix A)

**UK (teaching staff) respondent 1:** "Yes, I am familiar with it. There is technical support formally and peer support informally. Yes, it is very useful. I have used it and found it very effective" (See Appendix A)

**Pakistani (teaching staff) respondent 2:** "Yes. Help and support from university. Yes. Yes. It was excellent. Everyone helps you. You don't feel alone in crunch situations. Yes, it helps you very much" (See Appendix A)

**UK (teaching staff) respondent 2:** "Yes, its environment of cooperation. Informally Yes, I have used. One I can't come for exams so asked colleague to cover me. Very very effective" (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 1:** *"Friendly and supportive environment. Yes, we have and we all use it. Very effective" (See Appendix A)* 

**UK (non-teaching - administrative staff) respondent 1:** "Yes, I know we have support system for all. We care about each other. Yes, I do use it frequently. We cover each other. Yes, very effective" (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 2:** "Yes. I can't define but I have idea. Social, technological, emotional etc support from authorities to ensure you are not left by your own. Yes. Yes. Very effective. Yes" (See Appendix A)

**UK (non-teaching - administrative staff) respondent 2:** *"Yes. I have used it at times. Very useful" (See* Appendix A)

**Pakistani male:** *"Yes I am aware but can't explain. Yes, I have used. It is present here and its good experience. Very useful"* (See Appendix A)

**UK male:** *"Physical, technical, and people support at desk. Yes, we informally have and I do use it. I find it effective for myself" (See Appendix A)* 

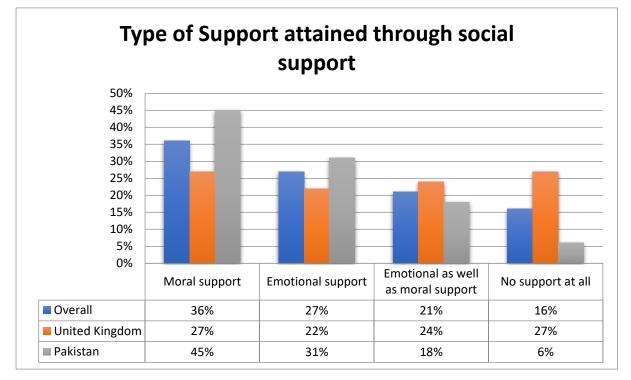
**Pakistani female:** "Not just heard I actively use it. I don't know how to explain it, Social being at department. Yes. Yes. Great... Any time I need any help. My fellow colleagues help me. Indeed" (See Appendix A)

**UK female:** "Yes, support from others around you. A lot of having opportunities, workshops, etc to resolve issues. Yes, its effective" (See Appendix A)

The pattern of awareness of social support at the workplace was explored and results showed that the majority of the respondents had knowledge and awareness of both formal and informal social support. The second step was measuring the effectiveness of the social support and results revealed that, overall, 28% of employees reproted it highly effective, whereas 50% found it effective. Interestingly, the comparative analysis revealed that Pakistan scored higher, in contrast to the UK, in finding social support effective to a certain extent (82% against 73%). Again, the qualitative findings are aligned with the quantitative findings. Earlier, the visibility of social support was reported higher in the emerging economy, in contrast to the developed economy, and now effectiveness is also found in the country with higher visibility. Hence, in this regard, the present study supports Haque *et al.*, (2018), Williams *et al.*, (2017), Haque *et al.*, (2016), and Haque and Aston (2016), to a large extent, in that social support is clearly more effective in the emerging economies, in contrast to the developed economy. Interestingly, overall, the effectiveness, to a certain extent, is reported by both teaching and non-teaching staff but the teaching staff scored fractionally higher (84% against 71%).

The detailed analysis revealed that social support is often received in an informal manner to reduce stress and, hence, these findings support Mark and Smith (2018). Interestingly, the quantitative findings revealed higher visibility in non-teaching staff, but the detailed analysis confirmed that, despite higher visibility, effective use is made by teaching staff. This is a new development, as previously there was no conclusive evidence regarding the variation in the effectiveness of social support for contrasting faculties. Nevertheless, the phenomenon was explored through the funnel approach and results again showed that experienced teaching staff, in the age bracket of 40 and above, reported using social support more constructively. Again, Mark and Smith (2018) found that in the UK, experienced staff use social support more effectively for dealing with stress and, therefore, this study supports their findings. Additionally, their findings are evident in the UK but with the present findings the notion is also confirmed in Pakistan (emerging economy).

Interestingly, overall, in contrast to their counterparts, males scored higher in finding social support effective at the workplace (84% against 72%). Hence, in this aspect, the present study differs with Haque *et al.*, (2018), Haque *et al.*, (2016), Haque and Aston (2016), and Sackey and Sanda (2011). In Pakistan and in the UK, teaching staff scored higher than administrative staff (88% against 75%; and 79% against 68%). Moreover, males, in contrast to females in both Pakistan and the UK, found social support more effective (84% against 79%; and 83% against 69%). Thus, the findings differ from the previous work of Haque *et al.*, (2018), Haque *et al.*, (2016), Haque and Aston (2016) and Sackey and Sanda (2011). It is interesting that although females reported using more social support than males, effectiveness is more evident among males. This led to examining the working experience of the employees by using funnel approach, and, it is evident that overall, employees with 7 or more years' experience in the education sector found social support more constructive and effective in contrast to young and less experienced employees.



# 5.3.5 Type of Support attained from social support at workplace

## Figure 5. 24: Type of support attained from social support.

Pakistani (teaching staff) respondent 1: "Only moral support" (See Appendix A)

**UK (teaching staff) respondent 1:** *"Not at all. I think organisation doesn't care how I feel" (See Appendix A)* 

Pakistani (teaching staff) respondent 2: "Emotional support" (See Appendix A)

UK (teaching staff) respondent 2: "Nothing" (See Appendix A)

Pakistani (non-teaching - administrative staff) respondent 1: "Moral support" (See Appendix A)

**UK** (non-teaching - administrative staff) respondent 1: "Combination of both" (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 2:** "Yes, I have gained moral support" (See Appendix A)

UK (non-teaching - administrative staff) respondent 2: "From my team moral support" (See Appendix A)

Pakistani male: "Moral support" (See Appendix A)

**UK male:** *"Moral and only moral"* (See Appendix A)

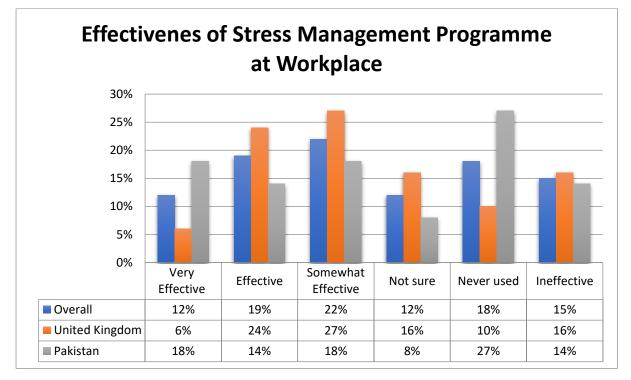
Pakistani female: "Emotional support definitely" (See Appendix A)

**UK female:** "Yes, I have comfort and received emotional support but not sure if I will get it again or not" (See Appendix A)

After establishing what respondents thought about the effectiveness of social support, the respondents were asked about the type of support they received frequently through social support and, interestingly, results showed that overall "moral support" is attained by the majority of public university staff (36%). Interestingly, emotional support is also received by public university staff (27%). Nevertheless, the comparative analysis revealed that Pakistan has a higher score than the UK with regard to moral support and emotional support at the workplace (45% against 27% and 31% against 22%). Additionally, there is also evidence that '*no support at all*' is higher in the UK, in contrast to Pakistan (27% against 6%). Hence, to a large extent, the present findings are aligned with Haque and Aston (2016) in that employees

within the developing economies receive a higher level of emotional and moral support, in contrast to the developed economies. Furthermore, overall, the teaching staff receive a higher level of emotional support, while administrative staff confirmed that they receive "moral support" (37% and 41%). Additionally, females received a higher level of emotional support (41%), whereas males often received moral support (47%).

In Pakistan, the majority of the teaching staff confirmed emotional support (40%) while nonteaching staff stated moral support (54%). On the other hand, in the UK, teaching staff received emotional support (33%) but an equal proportion of teaching staff stated that they received "no support at all". Non-teaching staff confirmed that both types of support were received (36%) but moral support was higher in contrast to emotional support in non-teaching staff (32% against 12%). In terms of gender, the majority of males in Pakistan and the UK stated that they received moral support (64% and 29%), while females in Pakistan and the UK confirmed that they received emotional support (46% and 36%). Interestingly, the ratio of 'no support at all' is higher in the UK among males in contrast to their counterparts (33% against 20%). This reflects that social support is less effective in providing emotional and moral support in the UK (developed economy) in comparison to Pakistan (emerging economy). Nevertheless, the present finding supports the earlier work of Haque et al., (2018), Haque et al., (2016) and Haque and Aston (2016), to a larger extent, as the present findings confirmed that a high level of emotional support is received by females, while moral support is received by males from the existing social support. Again, the funnel approach revealed that employees with higher experience, who stay with the same organisation, receive emotional, and moral support more often, while employees in the early stages of their career seek higher emotional support from their peers at the workplace.



# 5.3.6 Stress Management Programme effectiveness at workplace

Figure 5. 25: Stress management effectiveness at workplace.

**Pakistani (teaching staff) respondent 1:** *"Yes but very little. Yes, a bit. Little but effective" (See* Appendix A)

UK (teaching staff) respondent 1: "Somewhat useful" (See Appendix A)

**Pakistani (teaching staff) respondent 2:** *"I have some sessions and I feel it's quite effective"* (*See* Appendix A)

**UK** (teaching staff) respondent 2: "At that time it was effective" (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 1:** "Yes, I have used but not effective" (See Appendix A)

**UK (non-teaching - administrative staff) respondent 1:**"Yes, they offer stress training program and even helps you if you are feeling any stress. I have used it and its effective" (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 2:** *"Yes. Yes. Of course, reduces my immediate stress" (See* Appendix A)

### UK (non-teaching - administrative staff) respondent 2: "It's effective" (See Appendix A)

Pakistani male: "Yes. Yes. A lot" (See Appendix A)

**UK male:** "Useful" (See Appendix A)

Pakistani female: "Great help. Too much helpful" (See Appendix A)

### UK female: "Somewhat effective" (See Appendix A)

The respondents were asked about the use and effectiveness of the stress management programme within the university and results showed that the overall proportion of the employees who have used it and found it effective, to a certain extent, is higher than those who found it ineffective (35% against 9%). Interestingly, the majority of the participants who hadn't used it found it more effective than those who perceived it as ineffective (28% against 9%). This reflects that respondents who hadn't used it are only guessing that stress management is effective. It could be argued that respondents who hadn't used it believe it to be much more valuable. Again, it is debatable thing because such respondents are only guessing it to be invaluable and effective while it doesn't necessarily have to be the true case. However, those who reported that they have used it and found it effective is also not very clear because there is no way to further explore how effective it had been and in what circumstances. Since there are reported findings of those who used and found it ineffective, thus, it could be argued that the effectiveness of stress management programme could vary from person to person in different circumstances.

Overall, the teaching staff viewed it as more effective in contrast to non-teaching staff (40% against 30%; and 29% against 27%). Moreover, females in contrast to males found it more effective (43% against 28%) and perceiving it to be better than their counterparts (29% against 27%). Overall, it is evident that the stress management programme is effective in dealing with the stress of employees (53%). However, these are reported findings that might only be the guessing of these respondents who find it much more valuable. Interestingly, the proportion further increases in the UK (developed economy) in contrast to Pakistan (emerging economy)

(57% against 50%). Additionally, in Pakistan the proportion of employees who hadn't used it is evident significantly higher (27% against 10%). Moreover, considering overall grounds for faculty aspect, teaching staff scored higher than non-teaching staff in finding it effective (60% against 46%). Interestingly, overall, males scored fractionally higher than females in finding the stress management programme effective (55% against 53%). Since it is evident that the stress management programme is effective, this study is thus aligned with Watson (2000) and CAOT (2010) survey.

An in-depth comparative analysis revealed that in both Pakistan and the UK, teaching staff scored higher than non-teaching staff in finding stress management programme effective (64% against 39%; 59% against 56%). Additionally, the results showed that in the UK, males found it more effective than their counterparts (63% against 52%), whereas in Pakistan, females found it more effective than males (54% against 48%). Hence, this is a new development in that there is a variation in gender in the contrasting economies with males scoring higher than their counterparts. The funnel approach was used to examine the causes and results revealed that UK males have higher experience (7 to 20 years plus) in contrast to females, whereas in Pakistan, males have less experience and females have higher use of a social support system that helped them in dealing with stress more effectively. Interestingly, the funnel approach revealed that social support and stress management programme are preferred more by public universities' personnel rather than the services of the professional occupational therapist for dealing with stress in both countries, irrespective of gender and faculty.

# 5.3.7 Affective Commitment at the Universities

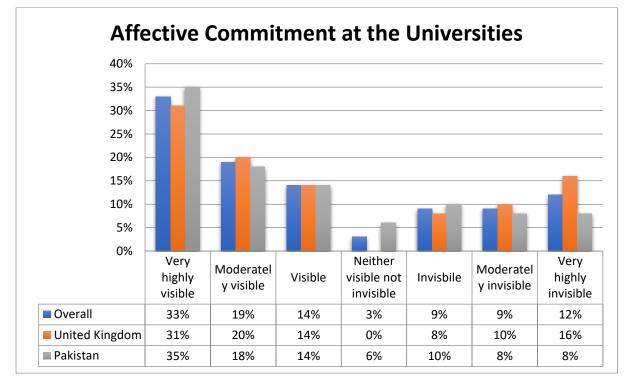


Figure 5. 26: Affective commitment at Universities.

**Pakistani (teaching staff) respondent 1:** *"My biggest concern. I feel unrest if there is any such issues" (See* Appendix A)

**UK** (teaching staff) respondent 1: "Things are never casting in stone. If there is new development, we normally face it and see how to face it. And find way around it. Do not expect workplace remaining stable. Change will come and you have to adopt it" (See Appendix A)

**Pakistani (teaching staff) respondent 2:** "No second thought. Its priority and I will do all to resolve it" (See Appendix A)

**UK (teaching staff) respondent 2:** *"Things can't be perfect. I convince my mind that you will come across. It will make me better. If challenge is there why not?" (See Appendix A)* 

**Pakistani (non-teaching - administrative staff) respondent 1:** *"My own problem. I will do anything to solve it" (See* Appendix A)

**UK** (**non-teaching - administrative staff**) **respondent 1:** *"It depends on what it is. We are all here for some work so if it's related to my area I will do it"* (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 2:** *"Extra load. I won't say I will be happy to do it but not unhappy if asked to do it" (See* Appendix A)

**UK (non-teaching - administrative staff) respondent 2:** *"I try to be positive and work out a way" (See* Appendix A)

**Pakistani male:** "*My most important task. I will ensure I do it in best possible manner*" (See Appendix A)

**UK male:** *"I will solve it. I like such challenges which forces me to do more" (See* Appendix A)

**Pakistani female:** "I feel very annoyed. If any additional problems are imposed on me I just want to stick to my assigned template" (See Appendix A)

**UK female:** *"If it's in my department and if it touches me I will do it. I will accept it as challenge then" (See Appendix A)* 

|                | Affective Commitment |
|----------------|----------------------|
| United Kingdom | 65%                  |
| Pakistan       | 67%                  |
| Teaching       | 69%                  |
| Administrative | 65%                  |
| Males          | 79%                  |
| Females        | 52%                  |

 Table 5. 62: Affective commitment categorization in percentages

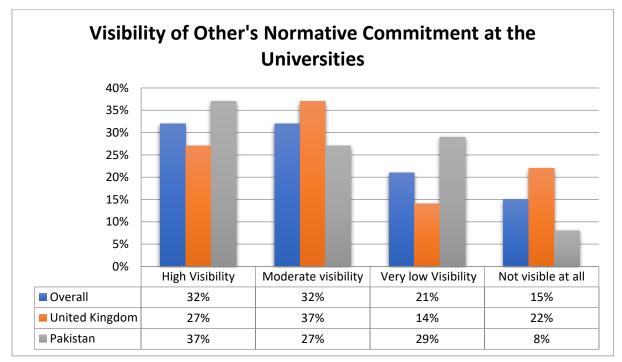
One of the three most important reported antecedents of organisational commitment is "affective commitment". In the present study, the visibility of affective commitment within the universities of the UK and Pakistan is highly evident. In other words, the affective commitment of university employees could be seen in both economies. In general, employees showed emotional attachment to their respective institutions. Hence, this is a new development, as previously there was no conclusive evidence from a comparative perspective. Nevertheless, an in-depth analysis revealed that it is higher in Pakistan in contrast to the UK (67% against 65%). Thus, this study supports Haque and Aston (2016), while it differs with work of Haque et al., (2018) in terms of AC in contrasting economies. Overall, teaching staff reported higher affective commitment compared to non-teaching staff (69% against 65%). Interestingly, overall, males have higher affective commitment than their counterparts (79% against 52%). Hence, this study differs from Haque et al., (2016), which found that females, have higher affective commitment than males. However, our findings support the earlier work of Haque and Yamoah (2014), Tan and Lau (2012) and Mathieu and Zajac (1990), since the qualitative findings show that AC is higher among males; the qualitative findings confirming the quantitative findings.

|                | Pakistan | United Kingdom |  |
|----------------|----------|----------------|--|
| Teaching       | 68%      | 71%            |  |
| Administrative | 67%      | 60%            |  |
| Males          | 86%      | 71%            |  |
| Females        | 47%      | 60%            |  |

Table 5. 63: Affective commitment comparison

Considering the contrasting economies, in Pakistan, affective commitment is almost equally evident in both teaching and non-teaching staff (68% against 67%) but it is higher in males in contrast to females (86% against 47%). On the other hand, in the UK teaching staff have higher affective commitment in contrast to non-teaching staff (71% against 60%). Since, as evident it is higher in teaching staff in contrast to non-teaching staff and, therefore, the qualitative and

quantitative findings are aligned. Similar to Pakistan, the males in the UK reported higher AC in contrast to females (71% against 60%). This is a significant development. Interestingly, AC was examined previously in different sectors, such as the IT Sector (Haque and Yamoah, 2014; Haque and Aston, 2016; Haque *et al.*, 2016) and Cargo Logistics (Haque *et al.*, 2018), while the present findings are from the education sector. However, overall, when considering organisational commitment, the findings support Chaudhry (2012), and Jackson and Rothman (2006) in that organisational commitment is higher in the education sector. Another important development is that the detailed analysis revealed that in earlier research, the majority of the respondents were from the young age brackets (20s to early 30s), with relatively low experience, while in this study, the majority of the respondents have more experience.



### 5.3.8 Visibility of Normative Commitment among others at the Universities

Figure 5. 27: Other employees' visible normative commitment at Universities.

**Pakistani (teaching staff) respondent 1:** "Being loyal and true to yourself. Yes, to some level. To some extent, I suppose" (See Appendix A)

**UK** (teaching staff) respondent 1: "Yes, it is very important to have loyalty to subject not to institution. Yes, I have seen it inside and its medium visibility" (See Appendix A)

**Pakistani (teaching staff) respondent 2:** *"Important but depends on how are treated. Not much inside. Very low" (See* Appendix A)

**UK (teaching staff) respondent 2:** *"Very important. If you think it's not my job, it's bad attitude. I see it inside here. 60% are loyal" (See Appendix A)* 

**Pakistani (non-teaching - administrative staff) respondent 1:** "Job loyalty is like a person remaining loyal to given tasks. Sometimes... very low, 30%" (See Appendix A)

**UK (non-teaching - administrative staff) respondent 1:** *"Yes, definitely important. Yes, people enjoy here, stay late. It shows loyalty is high" (See Appendix A)* 

**Pakistani (non-teaching - administrative staff) respondent 2:** *"Very important. Yes. Highly visible" (See* Appendix A)

**UK** (non-teaching - administrative staff) respondent 2: "I think loyalty is earned. It's not right to expect from employees or any department. Organizations have to earn it by caring about their people. Yes, a lot of people have been working since very long. I would say it's very visible" (See Appendix A)

Pakistani male: "Indeed important. I can see it. 90% are loyal" (See Appendix A)

**UK male:** "It's very specific. Some are more loyal in some industries. You have to be less loyal in some industries. It's give and take. Yes, I can see here. People are loyal very much" (See Appendix A)

**Pakistani female:** "Very very important. Yes, most are loyal. See I have been here since 15 years. Most are still here. I will say very visible" (See Appendix A)

**UK female:** "Very important. Both ways shall work. People should be loyal and organisation should also look after them. Quite highly visible, 60 to 80%" (See Appendix A)

|                | Normative Commitment |
|----------------|----------------------|
| United Kingdom | 78%                  |
| Pakistan       | 92%                  |
| Teaching       | 82%                  |
| Administrative | 88%                  |
| Males          | 84%                  |
| Females        | 86%                  |

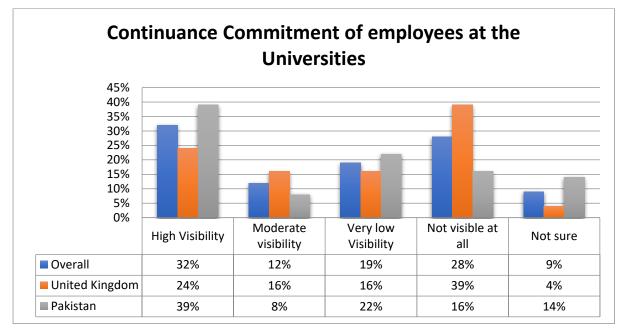
 Table 5. 64: Normative commitment categorization in percentages

The second dimension of organisational commitment is also evident in our findings. The majority of respondents confirmed visibility of "normative commitment" among other employees (85%). Interestingly, the absence of NC among other employees is highly reported in the UK in contrast to Pakistan (22% against 8%), reflecting that employees in the emerging economy view it more among others at the universities rather than a developed economy. Again, the qualitative findings support the quantitative findings in that visibility is higher in the emerging economy. Since the employees from the emerging economy reported higher NC of other employees, this differs from Haque and Aston (2016). Furthermore, overall the visibility of NC is highly reported about non-teaching staff in contrast to teaching staff (88% against 82%). Interestingly, the visibility through quantitative revealed higher among teaching staff but a detailed analysis confirmed that non-teaching staff report higher NC in contrast to teaching staff. Moreover, females, in contrast to males, have been reported to have higher NC (86% against 84%). Hence, the qualitative findings are aligned with the quantitative findings, as the NC is highly visible among females in contrast to males. In other words, visibility and the demonstration of the normative commitment is higher among females, as they feel that fulfilling the assigned tasks is a moral obligation. Hence, this study supports Haque and Yamoah (2014), while it contradicts Haque and Aston (2016) in terms of gender demonstrating normative commitment.

|                | Pakistan | United Kingdom |
|----------------|----------|----------------|
| Teaching       | 96%      | 88%            |
| Administrative | 83%      | 67%            |
| Males          | 87%      | 75%            |
| Females        | 96%      | 80%            |

Table 5. 65: Normative commitment comparison

In Pakistan, total NC is highly evident among teaching staff in contrast to non-teaching staff (96% against 83%). However, a further, in-depth analysis revealed that NC is more visible in non-teaching staff, while lower visibility is mostly evident in teaching staff. Hence, regarding the split (higher-moderate-lower visibility) aspect non-teaching staff have higher NC than teaching staff. Nevertheless, overall visibility is present in both teaching and non-teaching staff. Moreover, the females have higher total NC in contrast to males (96% against 87%). On the other hand, in the UK, total NC is higher in the non-teaching staff in contrast to teaching staff (88% against 67%). Additionally, total NC visibility is higher in females in contrast to males (80% against 75%). Hence, there is not much variation in the contrasting economies regarding gender and faculty. This is a new development. Interestingly, in Haque and Yamoah (2014) even though the majority of employees were young with little experience, and here the majority of respondents were experienced, the present findings are consistent with the earlier work. Thus, NC in terms of gender are similar in the contrasting sectors with distinguish job attributes including experience, age, field related skills.



# 5.3.9 Continuance Commitment of employees at the Universities

Figure 5. 28: Continuance commitment of employees at Universities.

**Pakistani (teaching staff) respondent 1:** "Depends on how good is post. Recently a colleague got offer of Vice Chancellor from private university. Option was good. Something like that if comes I will also try" (See Appendix A)

**UK (teaching staff) respondent 1:** "See it all depends. I might go and I might stay. It all depends on offers" (See Appendix A)

Pakistani (teaching staff) respondent 2: "I will not go. It's a government job" (See Appendix A)

**UK** (teaching staff) respondent 2: "Depends on opportunity. I like to move. Politics in organisation cause all such pressure. I want to go" (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 1:** "No, I am fine. Long career here and doing well" (See Appendix A)

**UK (non-teaching - administrative staff) respondent 1:** "*I would be happy to go. If it's good for my career I will go*" (*See* Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 2:** "No, I am happy here. This university has given me everything I desired for. I am satisfied here" (See Appendix A)

**UK** (**non-teaching - administrative staff**) **respondent 2:** *"At the moment I am happy here. Couldn't be much better"* (*See* Appendix A)

**Pakistani male:** "*I am somewhat happy for time being here*" (See Appendix A)

**UK male:** "I will be more than happy to go. I am bored here" (See Appendix A)

**Pakistani female:** *"A little disappointed to leave because its long time I worked here but it will take time to overcome it" (See Appendix A)* 

**UK female:** "It depends on the type of organisation. What are the opportunities? At the moment, where I am I feel I am fine here" (See Appendix A)

|                | Continuance Commitment |
|----------------|------------------------|
| United Kingdom | 56%                    |
| Pakistan       | 69%                    |
| Teaching       | 73%                    |
| Administrative | 51%                    |
| Males          | 58%                    |
| Females        | 67%                    |

 Table 5. 66: Continuance commitment categorization in percentages

Overall "continuance commitment" is visible among the majority of public university personnel (63% against 28%). However, the comparative analysis revealed that in Pakistan, continuance commitment is higher in contrast to the UK (69% against 56%). Hence, this study opposes Haque and Aston (2016) in terms of contrasting economies. However, the earlier work

was from the IT sector, while the present findings are from the education sector. In addition, the type of sectors is also different as these findings are from the public sector, whereas earlier findings were from the private sector. Moreover, CC is higher among teaching staff in contrast to non-teaching staff (73% against 51%). This is a new development, as there is no conclusive evidence regarding the CC of teaching and non-teaching staff from the literature at hand. Furthermore, females, in contrast to their counterparts, scored higher (67% against 58%). This study, therefore, supports Haque and Yamoah (2016) and Haque and Aston (2016), as earlier studies confirmed a higher of CC among females in contrast to males. The findings from the contrasting sectors still showed similar findings in this aspect, which means that, largely, females have a higher level of CC than their male counterparts in the organisational settings, irrespective of the types and nature of the sector. Hence, in all three dimensions, the qualitative findings support the quantitative findings, as visibility and actual demonstration are reported by Pakistan rather than by the UK (an emerging economy compared to a developed economy), teaching rather than non-teaching (contrasting faculties) and females rather than the males (contrasting gender). Interestingly, the present findings partially support Haque and Aston (2016) with regard to the gender aspect but, at the same time, contradict it in terms of types of economies, because their work revealed higher AC, NC and CC in the UK (developed economy) in contrast to Pakistan (emerging economy), whereas the present findings found the opposite. In other words, all three dimensions of the OC are highly reported by Pakistan in contrast to the UK.

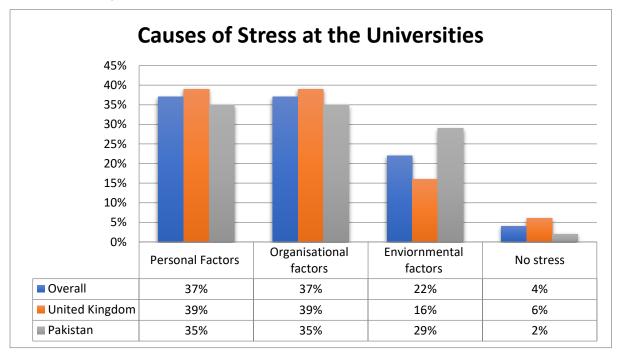
|                | Pakistan | United Kingdom |
|----------------|----------|----------------|
| Teaching       | 64%      | 84%            |
| Administrative | 71%      | 32%            |
| Males          | 60%      | 58%            |
| Females        | 79%      | 64%            |

 Table 5. 67: Continuance commitment comparison

Moreover, the phenomenon is further explored and results show that, within Pakistan, non-teaching staff, in contrast to teaching staff, have higher continuance commitment (71% against 64%), whereas females report higher CC than males (79% against 60%). On the other hand,

within the UK, teaching staff report higher CC than the non-teaching staff (84% against 32%). Interestingly, 64% of the non-teaching staff have '*no visibility at all*', reflecting the absence of CC to a large extent. males in contrast to females have a higher absence of CC (42% against 36%). This indicates that females have a higher CC than males at public universities in the UK and Pakistan. Hence, the present findings support Haque and Yamoah (2014), Haque and Aston (2016), and Haque *et al.*, (2016).

Interestingly, the funnel approach revealed that AC, NC and CC are higher among university personnel who have a higher level of experience, irrespective of their gender and faculty, in the contrasting economies.



# 5.3.10 Causes of stress at the Universities

Figure 5. 29: Causes of stress at the Universities.

**Pakistani (teaching staff) respondent 1:** *"Environmental factors like any mishap, strike, etc."* (*See* Appendix A)

**UK (teaching staff) respondent 1:** "*I think the political climate inside this organization. Environmental factors too but t I see too much politics insider this university lobbies*" (See Appendix A) **Pakistani (teaching staff) respondent 2:** "Organisational factors because personal are only temporary" (See Appendix A)

UK (teaching staff) respondent 2: "Organisational factors" (See Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 1:** "Political uncertainty is a major issue" (See Appendix A)

UK (non-teaching - administrative staff) respondent 1: "Organisational factors. Workload" (See Appendix A)

Pakistani (non-teaching - administrative staff) respondent 2: "Organisational factors" (See Appendix A)

UK (non-teaching - administrative staff) respondent 2: "Organisational politics" (See Appendix A)

Pakistani male: "Organisational factors" (See Appendix A)

**UK male:** "Organisational factors" (See Appendix A)

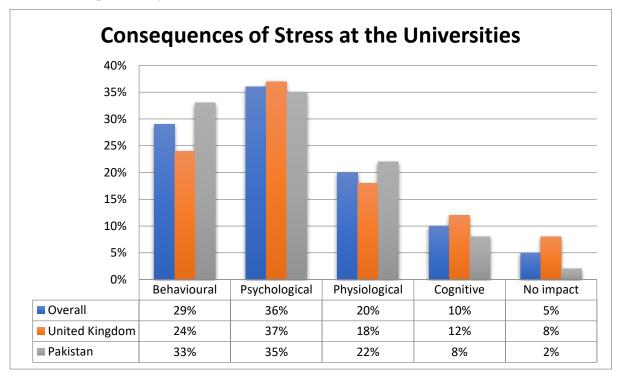
Pakistani female: "Family issues cause me stress. Personal factors" (See Appendix A)

**UK female:** "Personal life. My family. I can't give them time" (See Appendix A)

Overall, all three types of stressors, namely: personal, organisational and environmental factors are evidenced. Nevertheless, personal and organisational factors are equally high stressors affecting the universities' personnel (37%), followed by environmental factors (22%). However, the comparative analysis revealed that both personal and organisational factors are higher in the UK in contrast to Pakistan (39% against 35%; and 39% against 35%). However, environmental factors are higher in Pakistan than in the UK (29% against 16%). Interestingly, overall, teaching staff considered organisational factors as being higher than personal and environmental factors (41% > 37% > 18%). On the other hand, non-teaching staff attributed personal factors as the highest, followed by organisational and environmental factors (37% >

33% > 27%). Overall, considering gender, males found organisational factors higher in contrast to environmental and personal factors (53% against 35% and 8%), whereas females have accredited personal factors as being higher than organisational and environmental factors (65% against 20% and 10%). Thus, it is confirmed that personal factors are more common stressors for females, while organisational factors cause higher stress in males. Therefore, the present findings are consistent with Haque and Aston (2016), Haque *et al.*, (2016), and Haque *et al.*, (2018) because the same variations are confirmed in this study. Additionally, the qualitative findings support the quantitative results evidenced above. Thus, the numeric expression is further confirmed by in-depth, qualitative exploration.

Interestingly, the detailed analysis found that organisational politics is a common stressor at UK universities. It has been identified as a frequent contributor towards stress. This is a new development from the present study. Furthermore, the funnel approach revealed that within personal factors, females in Pakistan have identified family and financial problems as the major stressors, whereas in the UK, personality clashes and family issues cause stress. On the other hand, task demands (organisational factors) cause stress to males. Hence, Stranks (2005) is largely confirmed, while Haque and Aston (2016) is supported in that, within the types of stressors, the attributes vary for females in the contrasting economies.



#### 5.3.11 Consequences of stress at the Universities

#### Figure 5. 30: Consequences of stress at the Universities.

**Pakistani (teaching staff) respondent 1:** *"Behavioural issues do occur due to stress" (See* Appendix A)

**UK (teaching staff) respondent 1:** *"All of these affects but psychological stays longer" (See* Appendix A)

Pakistani (teaching staff) respondent 2: "Physiological" (See Appendix A)

**UK (teaching staff) respondent 2:** *"If stress I eat more. Behavioural. I had headache too, my health deteriorates but its more behavioural deficiency" (See Appendix A)* 

**Pakistani (non-teaching - administrative staff) respondent 1:** "I feel depress. My mood swings" (See Appendix A)

**UK** (**non-teaching - administrative staff**) **respondent 1:** "*Physical pain. I sleep to get better. The key is rest. I make sure I have rest at weekend and go with life*" (*See* Appendix A)

**Pakistani (non-teaching - administrative staff) respondent 2:** "I do have aching and pain. Even sometimes I feel like my heartrate has rapidly increased. Heart burning and chest pain starts too then I go to doctor. It's due to uncertain environment and long travel distance" (See Appendix A)

**UK** (non-teaching - administrative staff) respondent 2: "*Emotionally affected*" (See Appendix A)

**Pakistani male:** "Usually behavioural things happen due to it but that's for time being" (See Appendix A)

**UK male:** "Psychological. I can be more closed and angry but nothing physical" (See Appendix A)

Pakistani female: "Physical most of the times" (See Appendix A)

#### UK female: "Agitation, anxiety. More emotional things" (See Appendix A)

Overall, the results showed that "psychological symptoms" are the highest reported symptoms among all the consequences of stress (36%), followed by behavioural (29%), physiological (20%), and cognitive symptoms (10%), whereas only 5% stated that there was 'no impact of stress'. In this study, psychological symptoms are considered as emotional symptoms by separating them from cognitive symptoms. The comparative analysis revealed that psychological (emotional) and cognitive symptoms are reported higher in the UK than Pakistan (37% against 35%; and 12% against 8%). However, behavioural and physiological symptoms are reported higher in Pakistan than in the UK (33% against 24%; and 22% against 18%). Thus, this study contradicts Haque et al., (2016) and Haque et al., (2018), as the consequences of stress evidently vary in contrasting types of economies. In terms of faculty, overall, the teaching and non-teaching staff reported higher psychological symptoms but teaching staff scored higher (39% against 33%), followed by scoring equally in behavioural symptoms (29%), whereas non-teaching staff reported higher physiological symptoms in contrast to teaching staff (27% against 14%). Although, there is no conclusive evidence from the literature that directly explains the consequences for the contrasting faculties, Haque et al., (2018) is the closest, in this regard, by considering non-teaching as an operational layer of management.

However, the study is partially rejected, as the consequences clearly vary for the employees working in the contrasting economies. In terms of gender, the consequences vary for males and females. The results showed that females reported a high level of psychological symptoms (43%), followed by physiological (18%), behavioural (16%) and cognitive symptoms (14%), while 8% stated no impact. On the other hand, male personnel reported a high level of behavioural symptoms (41%), followed by physiological (22%), psychological (22%) and cognitive symptoms (6%); finally, only 2% stated no impact. Thus, this reflects a variation in the types of stressors within contrasting genders. Hence, this study opposes Haque *et al.*, (2018) by confirming variations in the stressors within the contrasting genders. Interestingly, Haque *et al.*, (2018) was conducted in the IT sector, while the present findings are from the education sector. This, therefore, is a new development. Nevertheless, the qualitative findings support the earlier quantitative findings.

The funnel approach revealed that higher behavioural and physiological symptoms are reported by personnel in the higher age bracket (late 40s and above), especially males, whereas psychological and cognitive symptoms are higher among employees within the early 30s to mid-40s age bracket. stress and anxiety are evident, as a negative outcome from job disliked features. Thus, this study supports Williams, Thomas, and Smith (2017) in that the DRIVE model is effective in determining a negative outcome. It is evident, in this study, that an imbalance in demands and resources create stress and anxiety. Moreover, the funnel approach revealed that overall acute (hyper-stress) is more common among females, while chronic (acute) stress is higher among males. Thus, this study supports Stranks (2005) in identifying that different types of stress exist in the professional workplace. Considering the various aspects, it is evident that despite stress, the level of organisational commitment is above par in both countries and, therefore, this study supports Jackson and Rothman (2006), Chaudhry (2012), and Mark and Smith (2018), while it contradicts Danish et al., (2015), Khan et al., (2015), and Khatibi et al., (2009). Nevertheless, it is evident that a few respondents in both the UK and Pakistan hinted at "situational commitment", especially in the UK. There is a suggestion that because of BREXIT, changing policies have made the majority of the workforce reconsider their priorities and commitment to universities. In Pakistan, better opportunities for attaining higher administrative positions in the private sector have driven personnel to leave. Thus, this reflects that, to a certain extent, the organisational commitment of public universities' personnel depends on the situation. Hence, this study supports Haque and Yamoah (2014) that altering situations have some effect on organisational commitment.

# **5.4** Overall findings in the light of Grid-Group Cultural theory

Grid-Group Cultural (GGC) Theory has made an important contribution to understanding, categorising and explaining cultures in a dynamic manner. The key elements of the G-GCT involve social relationships and cultural 'biases' as to whether or not we should be supportive to each other and whether or not we are or should be bound by 'social regulation'.

G-GCT could play an important role in the aspect of cross-cultural management as far as the addressing of the issues related diversity is concerned. The prior literature, though not informed by G-GCT suggests that mutual understanding of differences is to be encouraged.

In our experience of living in both cultures, a massive gap exists between the United Kingdom and Pakistan which are recognisible in G-GCT terms, to which mixed methods could also be applied.

By comparatison, 'individualism' is visible among the UK university personnel while 'collectivism' is more apparent among Pakistan's university personnel. Since, the use of social support is often reported by Pakistani university personnel, which indicates that there is strong bond between people while many interpersonal differences (ie high 'social solidarity'). On the other hand, UK university personnel often reported weak bonds between people and significant similarities between people. Considering gender, overall males could be categorized as 'fatalist' in their feelings, reasoning and actions, perhaps because they experience weaker social bonds *and* feel more differentiated individually. On the other hand, our findings support the tentative claim that females could be categorized as 'egalitarianism' for their ability to form strong bond with others while picturing themselves as sharing similarities with other women.

|                   | Gender | Occupational<br>Class             | Features  |
|-------------------|--------|-----------------------------------|---|
| United<br>Kingdom | Male   | Academics                         | Members enjoying competitive game playing   |
| Kinguoin          |        | Administrator                     | Worried persons in an insecure labour market<br>trying to survive another month in temporary<br>hourly paid jobs          |
|                   | Female | Academics Game-players out to win |   |
|                   |        | Administrator                     | Devotees pursuing their vocation or calling   |
| Pakistan          | Male   | Academics                         | Members of a collective movement aiming to<br>change the world for the benefit of<br>everybody, such as education for all |
|                   |        | Administrator                     | Surface actors playing a role while pretending that they care   |
|                   | Female | Academics                         | Colleagues competing fiercely for rapid promotion   |
|                   |        | Administrator                     | Workers doing a job   |

Table 5. 68: Occupational class in contrasting economies

Analysis of the occupational classifications shows that overall male academics seem to view occupational stress as an additional motivator while non-academic males prefer routine jobs. It could also be argued that females also view challenging situations as a driver to strive while non-academic females report it as stressors because they viewed it as distasteful. It could be argued that it is the nature of the academic role to be a 'game changer' out to prove their individual worth (consistent with the Individulaistic 'thought style') whereas non-academics work (fatalistically) to survive. In other words, academics approach is to thrive while non-academic is to survive. Therefore, it could be said that stress is perceived differently by the two distinctive groups and that there are institutionalized cultural difference which explain this. We can report that academics seem to have a higher risk appetite (and hence 'manage stress') while non-academics have low, Fatalistic tolerance and therefore, 'crumble to stress' or we suspect act privately to defend themselves from danger, for example by 'grinning and bearing it'.

## Thread analysis:

#### Authors Findings The researcher's **Brief explanation** Employed Date findings based on theory reported responses This study confirms the general notion that the organisational Workplace Personal Hague (2016) Personal strain. strain. commitment of employees in professional setting is affected and Aston Stress Theory personal resources, personal resources, and social support and social support by the personal strain, personal resources, and social support Social affect affect organisational significantly. Both studies have employed similar theories and Comparison found same results in the different service sectors in the UK organisational commitment of Theory teaching and Pakistan. However, Hague and Aston (2016) used simple commitment of IT and workers administrative staff correlation and t-test while this study used advanced at operational in the education statistical tool SEM to determine the total size effect of the and managerial level. variables affecting organisational commitment in contrasting sector economies. The present finding partially supports Kumasey et al. (2014) Kumasey Gender Social Organisational vary The results showed (2014)that all three types because both studies have common feature of confirming that Comparison et al. commitment of organisational stress and organisational commitment exist within the among varying commitment, workplace. The earlier study used gender social comparison gender and managerial status. namely, affective, while this study used combination of workplace stress theory and social comparison theory. However, from partially normative, and recursive model, only the existence and varying type of continuance

# Table 5. 69: Thread analysis to compare present findings with past research studies

|          |        |            | Males have higher    | commitment differ      | organisational commitment is established but the linkage of     |
|----------|--------|------------|----------------------|------------------------|---|
|          |        |            | organisational       | at the public          | these dimensions of organisational commitment in relation to    |
|          |        |            | commitment           | universities.          | different variations such as personal strain, personal          |
|          |        |            | whereas females      | Similarly, the type of | resources, perceived stress, occupational therapist and social  |
|          |        |            | have lower OC.       | stress differs for     | support, especially from the mediation perspective were not     |
|          |        |            | Furthermore,         | teaching and           | explored by earlier researcher. Thus, at present this test only |
|          |        |            | occupational stress  | administrative staff.  | offered partial confirmation about varying degree.              |
|          |        |            | did not vary for     |                        | Additionally, this study examined each dimension of             |
|          |        |            | contrasting gender.  |                        | organisational stress separately to investigate the linkage,    |
|          |        |            | Similarly, managers  |                        | which is the different approach. Moreover, previous study has   |
|          |        |            | and non-managers     |                        | used MANOVA test to determine results and it was conducted      |
|          |        |            | do not differ in     |                        | in the banking sector while present study is commenced in the   |
|          |        |            | terms of             |                        | education sector of contrasting economies by using AMOS         |
|          |        |            | occupational stress  |                        | SEM through partially recursive model. The present study has    |
|          |        |            | and organisational   |                        | opted for multi-comparative approach rather than simple         |
|          |        |            | commitment.          |                        | comparison between gender and management layer.                 |
|          |        |            |                      |                        | companson setween gender and management ayer.                   |
| Haque et | (2016) | Social     | The role of          | The role of            | The present findings support to larger extent Haque et al.      |
| al.      |        | Comparison | occupational         | occupational           | (2016) by confirming the role of occupational therapist having  |
|          |        | Theory     | therapist has no     | therapist has no       | no significant while personal strain and personal resources     |
|          |        |            | significant while    | significant while      | have significant impact on the AC, NC, and CC by employing      |
|          |        |            | personal resources   | personal resources     | same theory of social comparison. However, the emphasis of      |
|          |        |            | and personal strain  | and personal strain    | earlier study has largely concentrated on contrasting gender in |
|          |        |            | significantly affect | significantly affect   | the developed and emerging economy while in this study, first   |
|          |        |            | the affective,       | the affective,         | attempt to find the total size effect and magnitude of the      |
|          |        |            | normative and        | normative and          | mediation caused by variables in question on the dimensions     |
|          |        |            | continuance          | continuance            | of organisational commitment. Moreover, the earlier study       |

|                      |        |  | commitment of IT<br>sector employees<br>in contrasting<br>economies of the<br>UK and Pakistan.  | commitment of<br>teaching and non-<br>teaching<br>(administrative staff<br>in the UK and<br>Pakistan's public<br>universities. | considered simple correlation to investigate the linkage while<br>this study takes a step further to examine the size effect,<br>nature and strength of mediation, and multiple regression<br>within one construct to have higher generalizability. Previous<br>study took comparative approach by investigating contrasting<br>gender in distinctive economies while this study included the<br>faculty as third dimension. Earlier study was from the IT sector   |
|----------------------|--------|--|---|--|---|
|                      |        |  |   |  | while this study is mainly focused on the higher education sector of contrasting economies.   |
| Brannon<br>and Feist | (1992) | Health<br>Psychology                     | Personal Strain<br>affect the<br>professional<br>commitment of<br>workers but has a<br>negative linkage<br>with the well-<br>being, health and<br>behaviour | Personal strain<br>affects the<br>organisational<br>(professional)<br>commitment of<br>employees.                              | Present study confirms Brannon and Feist (1992) despite<br>viewing it from different perspective. Above mentioned<br>researchers explored the relationship from the health<br>psychology perspective while present study examined the<br>organisational (professional commitment) from the social<br>comparison theory. Similar results have been reported<br>because both examined the professional workplace to<br>examine the personal strain. Interestingly, both studies used<br>different yet advanced statistical tools. |
| Sackey<br>and Sanda  | (2011) | The Person-<br>Environment<br>Fit Theory | Personal strain<br>affects the<br>managers and non-<br>managers<br>commitment   | Personal strain<br>affects the teaching<br>and non-teaching<br>employees of the<br>universities.                               | Present findings partially confirm the notion that personal<br>strain has a linkage with the commitment. However, earlier<br>study considered managers and non-managers from the<br>emerging economy using P-E Fit theory while present study<br>used comparative approach to examine the same<br>phenomenon in advanced and emerging economy.  |

| Gok,<br>Akgunduz,<br>and Alkan | (2017) | Social Exchange<br>Theory | through social<br>support<br>Continuance<br>commitment of 5-<br>star private hotel<br>employees is<br>significantly<br>affected by<br>perceived job<br>stress | Continuance<br>commitment of<br>teaching and<br>administrative<br>university personnel<br>is not significantly<br>affected by<br>perceived job stress | Present findings differ with the earlier work of Gok et al. (2017)<br>perhaps because of the different sectors and differing<br>techniques. Earlier researchers commenced study in the hotel<br>industry by employing social exchange theory while present<br>study is carried out in the education sector through<br>comparative approach and social comparison theory along<br>with the workplace stress theory. Despite both being service<br>industries earlier one is private and mainly deals with tourism<br>services whereas present study is carried in the public sector<br>providing educational services. Thus, the nature of service<br>provision differs and therefore there is a difference in type of<br>stress and continuance commitment. Additionally, the public<br>sector often has higher continuance commitment due to<br>higher job security in contrast to private sector where there is |
|--------------------------------|--------|---------------------------|---|---|---|
| van Zyl et                     | (2013) | Work-related              | Affective   | Affective   | lower job security.<br>This study confirms van Zyl et al. (2013) that affective   |
| al.                            | . ,    | Stress                    | commitment of   | commitment of   | commitment is significantly affected by perceived job stress.   |
|                                |        | Consequences              | private hospital  | teaching and  | However, although, this research being carried out in public  |
|                                |        |                           | employees is  | administrative  | education sector using workplace stress and social comparison   |
|                                |        |                           | significantly   | university personnel  | theory while earlier study was carried out in the private   |
|                                |        |                           | affected by   | is significantly  | hospitals using work-related stress consequences. Moreover,   |
|                                |        |                           |   |   | the earlier researcher used "Experience of Work and Life<br>Circumstances" and COPE questionnaire while present study   |

|                 |        |   | perceived job<br>stress  | affected by perceived job stress  | adopted Meyer and Allen (1997) and Stranks (2005) scale to<br>measure the relationship. Hence, both; scales and sectors<br>differ but similar findings have been yielded.   |
|-----------------|--------|---|--|---|---|
| Zehra et<br>al. | (2017) | Social<br>Comparison<br>Theory<br>Three<br>Component<br>Model (TCM) | Normative<br>commitment<br>significantly<br>affected by<br>perceived job<br>stress | Normative<br>commitment<br>significantly affected<br>by perceived job<br>stress | Present findings support work of Zehra et al. (2017). Present<br>study also used social comparison theory to measure the<br>impact of perceived job stress on the normative commitment.<br>The comparative aspect has been used. Interestingly, both<br>studies have been carried out in the public sector however,<br>one is in the hospital while the other is from the universities.<br>Earlier researchers used correlation and regression technique<br>while advanced statistical test AMOS SEM is used in this<br>research.   |
| House           | (1981) | Supportive<br>Social Network  | Relation among<br>social support,<br>stress, and health                            | Informal support at<br>workplace reduce<br>stress                               | The earlier work of House (1981) has been confirmed that<br>there is a linkage of social support with the stress as the<br>informal support is effective in dealing with various types of<br>stressors. Earlier researcher opted for exploratory method by<br>using the examples from different professional workplaces to<br>understand the impact on the health whereas this study used<br>some of the consequences of stress affecting the health and<br>wellbeing of the employees in the education sector. This study<br>is more causal-effect and directed towards specific setting, yet<br>results have been to larger extent similar through employing<br>different theoretical stance. |

| Schwarzer | (1991) | Social Support | In public           | In education (public) | The present finding partially supported the argument of         |
|-----------|--------|----------------|---------------------|-----------------------|---|
| and       |        | and Health     | organisations, the  | sector, the           | Schwarzer and Leppin (1991) as both studies confirmed           |
| Leppin    |        |                | wellbeing and       | wellbeing, health,    | evidence from the public organisations. However, the earlier    |
|           |        |                | health of           | and commitment of     | researchers used 80 empirical studies as part of meta-analysis  |
|           |        |                | employees tends to  | employees improve     | whereas this study is causal-effective using mixed methods to   |
|           |        |                | improve with the    | in relation to daily  | gather data from primary sources. Moreover, the earlier         |
|           |        |                | presence of social  | routine tasks due to  | authors used social support and health attributes while in this |
|           |        |                | support inside      | social support at     | study different workplace related stress theories are used to   |
|           |        |                | organisations,      | workplace.            | explain the phenomenon from comparative lens. There are         |
|           |        |                | mainly when         |                       | more sophisticated and statistically advanced tools used in     |
|           |        |                | employees are       |                       | present study to establish the relationship between social      |
|           |        |                | performing          |                       | support, wellbeing, and commitment.                             |
|           |        |                | repetitive tasks on |                       |   |
|           |        |                | a daily basis       |                       |   |
| Hurlbert  | (1991) | Social         | Comparison          | Comparison            | Present findings partially support earlier researcher because   |
|           |        | Comparison     | between dominant    | revealed that a use   | the comparative groups such as (male vs. females, teaching vs.  |
|           |        | Theory         | and passive groups  | of social support is  | administrative, and developed vs. emerging economy) have        |
|           |        |                | revealed that       | effective in reducing | confirmed that social support has a linkage with the stress     |
|           |        |                | dominant group      | the stress and        | reduction and improved commitment. However, Hulbert             |
|           |        |                | have higher desire, | increasing            | (1991) found one group being dominant while other passive,      |
|           |        |                | satisfaction, lower | commitment of the     | whereas here the support is effective for both groups, yet      |
|           |        |                | stress, longevity,  | employees in all sub- | females use it more constructively than the males. The earlier  |
|           |        |                | and healthy         | groups such as,       | researcher commenced research by forming clinical and non-      |
|           |        |                | lifestyle.          | gender, economy,      | clinical groups among females whereas here the division was     |
|           |        |                |                     | and faculties.        | mainly between contrasting gender. There is no difference       |
|           |        |                |                     |                       | found among females of Pakistan and the UK responding           |

|                     |        |  |  |   | differently. Hulbert has used regression while present study<br>considered AMOS as advanced tool to measure the total size<br>effect of variables of interest but both studies explored social<br>comparison theory.  |
|---------------------|--------|--|--|---|---|
| Mark and<br>Smith   | (2008) | Demand<br>Resource<br>Individual<br>Effect (DRIVE)<br>Theory | The combination of<br>different stress<br>model to measure<br>the stress at<br>workplace.  | Practically tested<br>DRIVE model in the<br>complex<br>environment to<br>measure the impact<br>of stress on<br>commitment   | The present study confirmed that some of the attributes of job<br>are effectively linked with the stressors. Since, Mark and Smith<br>(2008) have only proposed the model while there was no<br>conclusive evidence regarding the model's effectiveness in<br>measuring the relationship. The major difference is the<br>theoretical proposal of earlier authors and the practical<br>implication of the same model to measure how demands,<br>resources, and individual effects are interlinked at workplace<br>using comparative approach. Moreover, there is extension<br>given to the model by linking with the organisational<br>commitment. |
| Haque and<br>Yamoah | (2014) | Gender<br>Differences  | There is partial<br>mediation caused<br>by support<br>programme,<br>personal strain,<br>and resources in<br>the organisational<br>commitment | Personal strain and<br>social support cause<br>partial mediation<br>among different<br>types of<br>organisational<br>commitment among<br>teaching and<br>administrative staff | Haque and Yamoah (2014) is supported by present findings to<br>larger extent by confirming the mediation of different<br>variables of interest within the organisational commitment.<br>Interestingly, earlier authors used gender differences while<br>current study opted for comparative approach by using social<br>comparison and workplace related stress theory. However,<br>the earlier study was carried out in the private IT sector<br>whereas present study is commenced in the public university<br>sector of the UK and Pakistan. Earlier researcher used<br>qualitative as main method while later using Chi-square to             |

|                   |        |  | among contrasting gender.   | of contrasting<br>economies.   | measure the antecedents of organisational commitment<br>within contrasting gender. On the other hand, this study has<br>mixed methods where higher emphasis is on the quantitative<br>methods, later followed by qualitative interviews. Higher<br>advanced statistical tools are employed to find the mediation<br>effect so that the total size effect is known, which was<br>previously not conclusive.  |
|-------------------|--------|--|---|--|---|
| Haque and<br>Oino | (2019) | Workplace<br>Stress Theory<br>Social<br>Comparison<br>Theory | The social support<br>has a significant<br>impact on the AC,<br>NC, and CC of the<br>employees working<br>at managerial and<br>operational level of<br>the cargo logistic<br>firms in Canada and<br>Pakistan. | has a significant<br>impact on the AC,<br>NC, and CC of the<br>male and females<br>working at teaching<br>and administrative<br>positions of the | Haque and Oino (2019) study employed qualitative methods<br>while this study used mixed methods by first employing<br>quantitative methods to have advanced statistical tools to<br>numerically express the relationship and later explore the<br>phenomenon through qualitative methods. Nevertheless,<br>both studies have employed same theory and therefore yield<br>similar results. The earlier study has used open ended<br>interviews while this study used matrix based semi structured<br>survey and open-ended interviews. Earlier study was carried in<br>the Cargo logistic organisations of Canada and Pakistan while<br>focusing on managerial and non-managerial level employees.<br>On the other hand, this study has reported findings from the<br>public universities in the UK and Pakistan by exploring<br>responses of contrasting gender working at the teaching and<br>administrative positions. However, both studies confirmed<br>that social support is significantly affecting the antecedents of<br>organisational commitment. |

| Haque et | (2018) | Workplace                                       | Perceived job   | Perceived job stress  | Present findings partially support and differ with the earlier   |
|----------|--------|---|---|---|--|
| al.      |        | Stress Theory                                   | stress and social   | has no significant  | work of Haque et al. (2018) despite both studies have  |
| al.      |        | Stress Theory<br>Social<br>Comparison<br>Theory | stress and social<br>support have<br>linkage with AC,<br>NC, and CC of cargo<br>logistic firms'<br>employees working<br>at managerial and<br>operational level of<br>Cargo Logistic firms<br>in Canada and<br>Pakistan. | linkage with AC, Nc,<br>and CC while social<br>support has linkage<br>with antecedents of<br>OC among teaching<br>and administrative<br>staff of the public<br>universities of the UK | employed similar theory. Perceived job stress is non-<br>significant linkage with dimensions of OC whereas social<br>support has significant impact on the antecedents of OC.<br>Interestingly, Haque et al. (2018) used hypthetico-inductive-<br>deductive model whereas this study employed hypthetico-<br>deductive-inductive model. Haque et al. (2018) largely relied<br>on interview findings whereas this study has used survey and |

# Chi-Square Test:

# Table 5. 70: Thread analysis Chi-square findings with past research studies

| Authors      | Year   | Employed theory | Findings             | The researcher's | Brief Explanation  |
|--------------|--------|-----------------|----------------------|------------------|--|
|              |        |                 |                      | findings         |  |
| Haque et al. | (2016) | Social          | Organisational       | Organisational   | Despite two studies commenced in different sectors of the    |
|              |        | Comparison      | factors cause higher | factors cause    | UK and Pakistan, the causes of stress are alike for          |
|              |        | Theory          | stress among IT      | higher stress in | contrasting gender. This perhaps is due to the use of Social |

| employees in the UKthe UK educationComparison Theory being employed in both comparative<br>studies. Personal stressors namely, family problems,<br>factors cause higher<br>andComparison Theory being employed in both comparative<br>studies. Personal stressors namely, family problems,<br>financial problems and personality clashes causes higher<br>stress in Pakistanfactors cause higher<br>stress in Pakistan<br>than the UK.environmental<br>factors cause<br>higher stress in<br>Pakistan's<br>education affected<br>organisational<br>stressors while<br>females are often<br>females are often<br>frequently affected<br>by personal factors<br>in contrasting<br>economies.Stressors cause<br>stress to males<br>stress to females<br>stress to females<br>stress of ontarsting<br>economies.Comparison Theory being employeel in both comparative<br>studies. Personal stressors higher<br>stress to females<br>stress to females<br>stress to females<br>and<br>stress to females<br>economies.Comparison Theory being employeel in both comparative<br>stress to females<br>and<br>measure the cause of stress. In fact, the present study<br>partially adapted the scale of Haque et al. (2016) only<br>treated consequences of stressors. However,<br>with earlier authors because Haque et al. (2016) only<br>treated consequences of stress affecting different<br>type of employees working in different faculty of<br>contrasting economies.Moreover, the<br>consequences of<br>stress a on<br>evident.<br>Overali,<br>ovganisational<br>factors causeCompar   | 1                      | l                 | 1  |
|---|------------------------|-------------------|--|
| personal factors and<br>environmental<br>factors cause higher<br>stress in Pakistan<br>than the UK.<br>Males are often<br>affected by<br>organisational<br>frequently affected<br>by personal factors<br>in contrasting<br>economies.<br>Moreover, the<br>consequences of<br>stress do not vary for<br>stress do not vary for<br>stress do not vary for<br>in different country's<br>in different country's<br>in sector.<br>Moreover, the<br>consequences of stress or sale<br>environmental<br>and<br>and<br>and<br>and<br>and<br>and<br>and<br>and<br>and<br>and   |                        |                   |  |
| <ul> <li>and</li> <li>stress to females while organisational factors such as, role</li> <li>demain, task demaid, organisational factors such as, role</li> <li>demaind, task demaid, organisational</li> <li>factors cause</li> <li>demaind task demaid, organisational</li> <li>factors cause</li> <li>demaind task demaid, organisational</li> <li>factors cause</li> <li>demaind task demaid, task demaid, organisational</li> <li>factors cause</li> <li>demaind task demaid, task dema</li></ul>  | than Pakistan while    | sector while      | studies. Personal stressors namely, family problems,         |
| factors cause higher<br>stress in Pakistan<br>than the UK.environmental<br>factors cause<br>higher stress in<br>Pakistan's<br>education sector.demand, task demand, organisation lifecycle, leadership<br>etc cause more stress among males, irrespective of the<br>type of economy, management layer, faculty, and type of<br>quantitative methods with advanced statistical tools to<br>measure the causes of stress. In fact, the present study<br>parially adapted the scale of Haque et al. (2016) to<br>measure the magnitude of stressors. However,<br>considering the consequences of stress, the study differst<br>stressors ather<br>in contrasting<br>economies.in contrasting<br>employees working<br>in different country's<br>IT sector.in the overall<br>physical,<br>behavioural, and<br>physical,<br>behavioural, and<br>prograinsational<br>factors causedemand, task demand, organisation lifecycle, leadership<br>etc cause more stress among males, irrespective of the<br>type of economy, management layer, faculty, and type of<br>quantitative methods with advanced statistical tools to<br>measure the causes of stress. In fact, the present study<br>parially adapted the scale of Haque et al. (2016) to<br>measure the magnitude of stressors. However,<br>with earlier authors because Haque et al. (2016) only<br>treated consequences in a general form while this study<br>considered ranking scale to measure the variation<br>between different types of stressors affecting different<br>taculty of<br>contrasting economies.Moreover,<br>the<br>consequences of<br>stress are<br>evident.<br>Overall,<br>organisational<br>factors causein different country's<br>stress are<br>evident.<br>Overall,<br>organisational<br>factors cause  | personal factors and   | personal factors  | financial problems and personality clashes causes higher     |
| stress in Pakistan<br>than the UK.<br>Considering gender,<br>affected by<br>organisational<br>stressors while<br>frequently affected<br>by personal factors<br>in contrasting<br>economies.<br>Moreover, the<br>consequences of<br>stress do not vary for<br>employees working<br>in different country's<br>IT sector.  | environmental          | and               | stress to females while organisational factors such as, role |
| than the UK.<br>Considering gender,<br>males are often<br>affected by<br>organisational<br>stressors while<br>females are<br>frequently affected<br>by personal factors<br>in contrasting<br>economies.<br>Moreover, the<br>consequences of<br>stress do not vary for<br>stress do not vary for<br>employees working<br>in different country's<br>IT sector.<br>Hand the UK.<br>higher stress in<br>Pakistan's<br>education sector.<br>Organisational<br>stressors cause<br>in contrasting<br>in the overall<br>other hand,<br>stress are<br>evident.<br>Overall,<br>organisational<br>factors cause  | factors cause higher   | environmental     | demand, task demand, organisation lifecycle, leadership      |
| Considering gender,<br>males are often<br>affected by<br>organisational<br>stressors while<br>females are<br>frequently affected<br>by personal factors<br>in contrasting<br>economies.<br>Moreover, the<br>consequences of<br>stress do not vary for<br>employees working<br>in different country's<br>IT sector.<br>Considering gender,<br>while personal<br>actors cause<br>in contrasting<br>in contrasting<br>in contrasting<br>in different country's<br>it sector.<br>Consequences of<br>stress are<br>evident.<br>Overall,<br>organisational<br>factors cause   | stress in Pakistan     | factors cause     | etc cause more stress among males, irrespective of the       |
| males are often<br>affected by<br>organisational<br>stressors while<br>females are<br>frequently affected<br>by personal factors<br>in contrasting<br>economies.<br>Moreover, the<br>consequences of<br>stress do not vary for<br>employees working<br>in different country's<br>IT sector.   | than the UK.           | higher stress in  | type of economy, management layer, faculty, and type of      |
| affected<br>organisational<br>stressors<br>females<br>in contrasting<br>economies.Organisational<br>stressors<br>while<br>females<br>in contrasting<br>economies.Organisational<br>stressors<br>while<br>treated consequences of stress. In fact, the present study<br>partially adapted the scale of Haque et al. (2016) to<br>measure the magnitude of stressors. However,<br>considering the consequences of stress, the study differs<br>with earlier authors because Haque et al. (2016) only<br>treated consequences in a general form while this study<br>in the overall<br>economies.Moreover,<br>tonsequences of<br>stress do not vary for<br>employees working<br>in different country's<br>IT sector.measure the causes of stress. In fact, the present study<br>partially adapted the scale of Haque et al. (2016) to<br>measure the magnitude of stressors. However,<br>considering the consequences of stress, the study differs<br>treated consequences in a general form while this study<br>treated consequences in a general form while this study<br>between different types of stressors affecting different<br>type of employees working in different faculty of<br>consequences of<br>stress are<br>evident.<br>Overall,<br>organisational<br>factors<br>cause  | Considering gender,    | Pakistan's        | industry. Interestingly, both studies have used              |
| organisational<br>stressors while<br>females are<br>frequently affected<br>by personal factors<br>in contrasting<br>economies.<br>Moreover, the<br>consequences of<br>stress do not vary for<br>employees working<br>in different country's<br>IT sector.   | males are often        | education sector. | quantitative methods with advanced statistical tools to      |
| stressors while<br>females are<br>frequently affected<br>by personal factors<br>in contrasting<br>economies.<br>Moreover, the<br>consequences of<br>stress do not vary for<br>in different country's<br>IT sector.  | affected by            | Organisational    | measure the causes of stress. In fact, the present study     |
| females are<br>frequently affected<br>by personal factors<br>in contrasting<br>economies.<br>Moreover, the<br>stress do not vary for<br>employees working<br>in different country's<br>IT sector.   | organisational         | stressors cause   | partially adapted the scale of Haque et al. (2016) to        |
| frequently affected<br>by personal factors<br>in contrasting<br>economies.<br>Moreover, the<br>consequences of<br>stress do not vary for<br>employees working<br>in different country's<br>IT sector.   | stressors while        | stress to males   | measure the magnitude of stressors. However,                 |
| by personal factors<br>in contrasting<br>economies.<br>Moreover, the<br>consequences of<br>stress do not vary for<br>employees working<br>in different country's<br>IT sector.<br>by personal factors<br>in the overall<br>education<br>stress do not vary for<br>employees working<br>in different country's<br>IT sector.<br>between different types of stressors affecting different<br>type of employees working in different faculty of<br>contrasting economies.<br>behavioural, and<br>psychological<br>consequences of<br>stress are<br>evident.<br>Overall,<br>organisational<br>factors cause   | females are            | while personal    | considering the consequences of stress, the study differs    |
| in contrasting in the overall<br>economies.<br>Moreover, the<br>consequences of<br>stress do not vary for<br>employees working<br>in different country's<br>IT sector.  | frequently affected    | stressors cause   | with earlier authors because Haque et al. (2016) only        |
| economies.<br>Moreover, the sectors. On the type of employees working in different faculty of contrasting economies.<br>stress do not vary for physical,<br>employees working behavioural, and in different country's psychological<br>IT sector.<br>IT sector.   | by personal factors    | stress to females | treated consequences in a general form while this study      |
| Moreover, the<br>consequences of<br>stress do not vary for<br>employees working<br>in different country's<br>IT sector.   | in contrasting         | in the overall    | considered ranking scale to measure the variation            |
| consequencesotherhand,contrasting economies.stress do not vary forphysical,employees workingbehavioural, andin different country'spsychologicalIT sector.consequences ofstressareevident.Overall,organisationalfactorsfactorscause  | economies.             | education         | between different types of stressors affecting different     |
| stress do not vary for<br>employees working<br>in different country's<br>IT sector.<br>IT sector.<br>UN | Moreover, the          | sectors. On the   | type of employees working in different faculty of            |
| employees working<br>in different country's<br>IT sector.<br>IT sector.<br>behavioural, and<br>psychological<br>consequences of<br>stress are<br>evident.<br>Overall,<br>organisational<br>factors cause  | consequences of        | other hand,       | contrasting economies.                                       |
| in different country's<br>IT sector.<br>by consequences of<br>stress are<br>evident.<br>Overall,<br>organisational<br>factors cause   | stress do not vary for | physical,         |  |
| IT sector.<br>onsequences of<br>stress are<br>evident.<br>Overall,<br>organisational<br>factors cause   | employees working      | behavioural, and  |  |
| stress are<br>evident.<br>Overall,<br>organisational<br>factors cause   | in different country's | psychological     |  |
| evident.<br>Overall,<br>organisational<br>factors cause   | IT sector.             | consequences of   |  |
| Overall,<br>organisational<br>factors cause   |                        | stress are        |  |
| organisational<br>factors cause   |                        | evident.          |  |
| factors cause   |                        | Overall,          |  |
| factors cause   |                        | organisational    |  |
|   |                        | factors cause     |  |
| stress while  |                        | stress while      |  |
| emotional   |                        | emotional         |  |

|              |        |                  |                      | symptoms are        |  |
|--------------|--------|------------------|----------------------|---------------------|--|
|              |        |                  |                      | common in the       |  |
|              |        |                  |                      | education sector.   |  |
|              | (2010) |                  | Oversientienel       |                     | In terms of contracting concerning the property findings     |
| Haque et al. | (2018) | Workplace Stress | Organisational       | Organisational      | In terms of contrasting economies, the present findings      |
|              |        | Theory           | factors cause higher | factors cause       | support the earlier work of Haque et al. (2018) as the       |
|              |        | Social           | stress in Canada's   | higher stress in    | developed economies workforce is more affected by            |
|              |        | Comparison       | logistic businesses  | the UK than         | organisational stressors while personal stressors are often  |
|              |        | Theory           | than Pakistan while  | Pakistan's          | affecting emerging economies' workforce. Since both          |
|              |        |                  | personal factors and | education sector    | theories have employed similar type of theories to           |
|              |        |                  | environmental        | while personal      | investigate the causes of stress in different types of       |
|              |        |                  | factors cause higher | factors and         | economies. Interestingly, the earlier study has been from    |
|              |        |                  | stress in Pakistan   | environmental       | the private logistic sector whereas the present data is from |
|              |        |                  | than the Canada.     | factors cause       | the public education sector. Moreover, the earlier study     |
|              |        |                  | Moreover, they       | higher stress in    | has employed qualitative thematic analysis to measure the    |
|              |        |                  | found no difference  | Pakistan than the   | types of stressors whereas this study used mixed methods     |
|              |        |                  | in types of          | UK.                 | by employing Chi-square test to measure the magnitude        |
|              |        |                  | consequences of      | All types of        | of types of stressors and later adopt the thematic analysis  |
|              |        |                  | stress in Logistic   | consequences of     | so that the greater sum is attained through mixed            |
|              |        |                  | sector.              | stress vary for     | methods. On the other hand, the present findings differ      |
|              |        |                  |                      | employees           | with Haque et al. (2018) in terms of consequences, which     |
|              |        |                  |                      | working at          | could be largely attributed to the fact that earlier         |
|              |        |                  |                      | different faculties | researchers considered consequences in general manner        |
|              |        |                  |                      | in the UK and       | without classifying them in order to rank them in the        |
|              |        |                  |                      | Pakistan, yet       | degree. This study formed the ranking scale to measure       |
|              |        |                  |                      | overall             | and categorise different types of consequences based on      |
|              |        |                  |                      | behavioural         | Stranks (2005) work. The present study is more in depth      |
|              |        |                  |                      | consequences are    | by using mixed methods to have a greater sum rather than     |
|              |        |                  |                      | higher among all.   | relying on specific method, which could be a reason to       |
|              |        |                  |                      | However,            | have more in-depth finding to attain classified and ranked   |
|              |        |                  |                      | teaching staff      | responses.   |

|            |                  |   | demonstrate<br>often<br>psychological<br>whereas<br>administrative<br>staff exhibit<br>behavioural and<br>physical  |   |
|------------|------------------|---|---|---|
| Cicei (201 | 2) Affect Theory | All types of stressors<br>affect the<br>organisational<br>commitment of the<br>public sector<br>employees in similar<br>manner. Stressors of<br>all types are equally<br>affecting workers in<br>the public sector. | symptoms.<br>The present<br>findings revealed<br>that among all<br>types of stressors,<br>organisational<br>factors cause<br>more stress to<br>workers in<br>contrast to<br>personal and<br>environmental<br>factors in the<br>public sector.<br>Therefore,<br>organisational<br>commitment<br>varies in relation<br>to stress. | Cicei (2012) used affect theory to examine the relationship<br>between stress and organisational commitment. In the<br>due process, it is found that all types of stressors affect the<br>workers in a similar way within the public sector. On the<br>other hand, present findings differ because the social<br>comparison theory along with different workplace related<br>stress theories employed revealed that organisational<br>stressors are more predominantly affecting the workers in<br>the public sector in contrast to other types of stressors.<br>Cicie (2012) did not consider the managerial positions to<br>distinguish the type of relationship between research<br>variables while present study considered faculties as one<br>aspect to measure the variation. Moreover, present study<br>considered comparative approach, which is also the<br>reason to have a differing finding. responsibility pressure,<br>workload, role conflict and job vs. non-job conflicts were<br>the main components to measure correlation while<br>present study used proportional analysis and Chi-square<br>test to measure the varying stressors. Hence, there is a<br>different in scale used to measure the relationship<br>between research variables. |

| Fairbrother | (2003) | Job-Specific     | Workplace stress is    | The causes of      | The study differs with Fairbrother and Warn (2003) by         |
|-------------|--------|------------------|------------------------|--------------------|---|
| and Warn    | (2003) | Model of Stress  | alike for all types of | stress differ for  | confirming that all though the job features being similar,    |
|             |        | Model of Stress  |                        |                    |   |
|             |        |                  | naval officer trainees | types of faculties | males and females working at teaching and administrative      |
|             |        |                  | when they go under     | in the education   | staff are affected by different types of stressors in the UK  |
|             |        |                  | sea training. Specific | sector, as         | and Pakistan's public universities. Since, the both studies   |
|             |        |                  | work dimensions        | teaching staff are | employed different theories, therefore, their findings also   |
|             |        |                  | create stress to       | more affected by   | differ. The focus of earlier researchers was mainly focused   |
|             |        |                  | larger extent;         | organisational     | on job-specific model of stress while here the comparative    |
|             |        |                  | however, the types     | stressors whereas  | approach was considered. One could also argue that the        |
|             |        |                  | of stressors are       | administrative     | reason for difference in two studies is because of the        |
|             |        |                  | similar for all        | staff is more      | target audience and industry. As the Fairbrother and Warn     |
|             |        |                  | trainees.              | affected by        | (2003) focused on naval officer trainees for sea training     |
|             |        |                  |                        | personal and       | while here the focus was on professional working in the       |
|             |        |                  |                        | environmental      | education sector. The type of training of naval officer is    |
|             |        |                  |                        | stressors. The job | different than the professionals working in the education     |
|             |        |                  |                        | features despite   | sector because of their job attributes are different. Hence,  |
|             |        |                  |                        | being similar, the | this is also a likely reason behind contradicting the earlier |
|             |        |                  |                        | stress differs for | researchers' work.  |
|             |        |                  |                        | contrasting        |   |
|             |        |                  |                        | gender in          |   |
|             |        |                  |                        | distinctive        |   |
|             |        |                  |                        | economies.         |   |
| Stranks     | (2005) | Workplace Stress | All types of stressors | All types of       | The present findings support Stranks (2005) by confirming     |
| Strumo      | (2003) | Theory           | affect the employees   | stressors are      | that all types of stressors and consequences of stress exist  |
|             |        | Theory           | in the organisational  | evident to be      | within the professional organisational setting. Since, the    |
|             |        |                  | settings. On the       | affecting the      | present study employed partially the theory of Stranks and    |
|             |        |                  | •                      | 0                  |   |
|             |        |                  | other hand, different  | teaching and       | developed a scale on his given argument, therefore, there     |
|             |        |                  | types of               | administrative     | is a higher similarity between the findings.                  |
|             |        |                  | consequences           | employees in the   |   |
|             |        |                  | emerge.                | UK and Pakistan's  |   |

| <b></b>    |        |                   |                     |                     | 1   |
|------------|--------|-------------------|---------------------|---------------------|---|
|            |        |                   |                     | public              |   |
|            |        |                   |                     | universities.       |   |
|            |        |                   |                     | Similarly,          |   |
|            |        |                   |                     | different types of  |   |
|            |        |                   |                     | consequences of     |   |
|            |        |                   |                     | stress are found    |   |
|            |        |                   |                     | among the male      |   |
|            |        |                   |                     | and female          |   |
|            |        |                   |                     | working at          |   |
|            |        |                   |                     | teaching and        |   |
|            |        |                   |                     | administrative      |   |
|            |        |                   |                     | staff in the UK and |   |
|            |        |                   |                     | Pakistan.           |   |
| Mark and   | (2008) | Demand            | The combination of  | Practically tested  | The present study practically implemented the model to      |
| Smith      |        | Resource          | different stress    | DRIVE model in      | measure the magnitude of the stress in complex business     |
|            |        | Individual Effect | model to measure    | the complex         | environment. The present study checked practical viability  |
|            |        | (DRIVE) Theory    | the stress at       | environment to      | of the model and confirmed that causes and consequences     |
|            |        |                   | workplace.          | measure the         | of stress exist in the complex business environment. Since, |
|            |        |                   |                     | impact of stress.   | this study employed DRIVE model, which was also             |
|            |        |                   |                     |                     | previously employed in Haque and Oino (2019), Haque et      |
|            |        |                   |                     |                     | al. (2016), and Haque et al. (2018). Those studies were     |
|            |        |                   |                     |                     | used by adopting their questionnaire items, thus, there is  |
|            |        |                   |                     |                     | similar approach to larger extent to test DRIVE model and   |
|            |        |                   |                     |                     | as a result, attained similar findings.                     |
| Sackey and | (2011) | The Person-       | Both environment    | The causes and      | Both studies confirmed the existence of stress affecting    |
| Sanda      |        | Environment Fit   | and person are      | consequences of     | people differently on different positions. However, Sackey  |
|            |        | Theory            | connected and       | stress differ for   | and Sanda (2011) used Person-Environment Fit model to       |
|            |        |                   | stress affect both  | people working at   | understand the stress phenomena working in the              |
|            |        |                   | managerial and non- | different           | professional setting while social comparison theory in the  |
|            |        |                   |                     | positions, yet the  | present study also found similar findings. One of the       |

|                          |                             | managerial position<br>employees.  | person and<br>environment are<br>connected. Stress<br>affects individuals<br>differently.  | reasons for finding the similar results could be attributed<br>to the use of comparative approach because both studies<br>considered comparative aspect to measure the stress at<br>workplace.  |
|--------------------------|-----------------------------|--|--|---|
| Sackey and (200<br>Sanda | 08) Demand Control<br>Model | Social support has a<br>role while<br>psychological<br>attributes related to<br>job demand affects<br>employees at<br>workplace<br>therefore,<br>depression, anxiety,<br>stress results from<br>the workplace<br>activities. | Different types of<br>causes of stress<br>affect employees<br>working in the<br>education sector<br>of the UK and<br>Pakistan<br>differently and<br>therefore<br>consequences<br>differ. | The earlier findings are partially supported through<br>present findings, as the two studies have employed<br>different theories to examine the workplace stress. Sackey<br>and Sanda (2008) opted for Job demand control model to<br>measure the psychological attributes affecting the<br>workplace operations while those demand attributes are<br>partially employed in this study through DRIVE model.<br>Hence, there are similarity. However, the earlier study was<br>carried out to investigate the stress, anxiety, and<br>depression among female managers using both<br>questionnaire and interviews while this study used mixed<br>methods to examine male and female working at the<br>teaching and administrative positions. |

| Author       | Theory             | Author's         | Personal          | Difference         |
|--------------|--------------------|------------------|-------------------|--------------------|
|              |                    | findings         | findings          |                    |
| Thompson M.  | Cultural theory    | The aspect of    | Social relations  | Dualism cannot     |
| (2018)       |                    | dualism has been | are important for | be refuted as far  |
|              |                    | refuted by the   | culture           | as cultural aspect |
|              |                    | author           |                   | is concerned       |
| Coyle (2018) | Cultural theory of | The              | The issues of     | No major           |
|              | organisations      | understanding of | people are to be  | difference         |
|              |                    | risks and the    | addressed as far  |                    |
|              |                    | responses of     | as the cultural   |                    |
|              |                    | people towards   | aspect is         |                    |
|              |                    | various social   | concerned         |                    |
|              |                    | issues           |                   |                    |

Table 5. 71: Thread analysis present findings with earlier work of G-GCT

The table above records the differences and similarities between selected key authors and our own findings. Gaps remain. Thompson is vehement in his opposition to the idea of dualism in terms of society and culture as far as the application of the Grid-Group Culture Theory is concerned (Berger, 2016). For him cultures are always work-in-progress and will demonstrate Fatalistic, Hierarchical, Egalitarian and Individualistic thinking in varying proportions over time. In otherwords, the UK and Pakistan are not fixed in their differences and actors within each country will show distinctly recognisible and similar forms of reasoning and action. 'The Others' is typically less different than we might assume. Recognition that a similar range of competing rationalities will exist in foreign countries would be a useful start provided by G-GCT. For example, when presented with an existential threat, Fatalist and Egalitarian responses make equally reasonable sense.

The different culturally available means of assessing risk amount to a repertoire worth knowing, and a re-analysis of the literature on 'stress' in terms of 'risk' would be a valuable undertaking.

As G-GCT specifies four culturally available rationalities, by enhancing self and mutual awareness of these competing, yet equally reasonable ways of thinking, it may be possible for organisations to foster and find four assessments and four solutions to every surprising difficulty and opportunity they face, improving 'requisite variety' especially for the most complex problems. It is not so much the elimination of cultural biases that is called for, as it is not possible to act reasonably without employing one or more 'thought style' to supply the reasoning. The differences and similarities indicated in the Table above may also be as a result of the different and specific contemporary scenarios affecting higher education systems in the countries in question, the different systems of Quality Assurance present in the countries (for example the NSS, REF and TEF in the UK. It is reasonable to expect differences in reasoning given that so much emphasis is placed presently on 'student statisfaction', 'research excellence' and teaching excellence' defined using standardised metrics which no UK academic can ignore. In this way religious differences and the weight of history may not be as decisive as might be assumed. Although beyond the scope of this study differences in the governance of universities each country will present academics and administrators with different day-to-day imperatives which they might comply willingly (hierarchy), resist collectively (egalitarian reasoning), join in competition to be not just winners but 'game changers' or resign themselves to (fatalistically) in order to survive the changes which many of our iterviewees and survey respondents variously complained of or relished.

We present no evidence to suggest that one country's HE system is superior to another, though it will be for others to determine how well the UK and Pakistan meet their own (culturally contested) success criteria. In the meantime, we continue to sound warnings about the detrimental effects of stress will be having, not just in the minds of our respondents but also of the literature, noting where our work supports or refutes different authors specifically.

Because, at least according to G-GCT, theories are cultural artefacts, many and perhaps all of the similarities and differences between different authors' theories originate in each author's preferred thought style(s). Not every rationale is shared and each author will assess the causes and effects (risks) associated with stress differently. To hierarchical thinking, 'role ambiguity' is stressful, but to individualistic thinking, role clarity (strictly defined job descriptions) are provocative and wrong-minded. 'Flexibility' is then what is wanted and opportunities to outcompete one's colleagues. Finally, these competing forms of reasoning will inhabit the minds of readers.

Since affective commitment is reportedly high in both economies, this study, contradicts especially Mitic *et al.*, (2016) in that

- power distance (ie hierarchy) is higher in the emerging economies and supposed to affect AC (affective commitment) *negatively* 

- yet although Pakistan is believed to epitomise high power distance, our respondents found AC to be easily visible among employees

And,

- despite individualism being famously higher in the UK, in contrast to Pakistan (rated at 89 against 14 on the same scale), organisational commitment is reported *higher* by Pakistani respondents. Thus, our study contradicts Afaneh *et al.*, (2014), whose study did not explain any particular dimension, whereas in this study, AC, NC and CC are all self-reported by respondents at higher levels than in the 'individualistic' UK.

Among these intriguing anaomalies, Pakistan is a country with high reported collectivism (ie high social solidarity in G-GCT terms) in which high AC is to be expected theoeretically. Yet this finding contradicts Gelade *et al.*, (2006), while only partially supporting Ning (2006) who claims that organisational commitment is significantly affected by *both*: *high individualism* and *high collectivism*.

We also find that a collectivism does not reduce employees' job satisfaction, thus conflicting with Gelade *et al.*, (2008) and with Afaneh *et al.*, (2014) in their claim that higher masculinity positively affects organisational commitment. Note that Pakistan has been measured as a 'low masculinity culture', but we find that the level of *commitment* is *high*.

It is clear then, that there are puzzes yet to be solved and this study has pointed at where thosepuzzle lie. It has been shown that cross-cultural studies offer new insights that are missed or misread otherwise.

## 5.5 Summary

We find that the causes and consequences of stress vary for public university staff in terms of gender, faculty and types of economy. Theese variations are statistically significant and the qualitative findings also further confirm that organisational factors cause higher stress to males, whereas females are highly stressed by personal factors. Moreover, teaching staff thought that it was personal stressors causing stress while non-teaching staff attributed stress more 'objectively' to organisational and environmental factors and less so to themselves. Overall,

organisational stressors caused higher stress to the majority of public university personnel. Nevertheless, to a certain extent, all types of stressors are evident notwithstanding the contrasting economies.

We have found that the self-reported consequences of stress for males are usually behavioural and physiological, whereas psychological and cognitive consequences are reported by females in both Pakistan and the UK. Overall, reported psychological consequences are higher for teaching and non-teaching staff in both countries' HE sectors. Moreover, social support is evidently effectively used by the personnel in the emerging economy, more so than in the developed economy. Overall, both teaching and non-teaching staff seem to use social support effectively.

Male respondents report using social support more effectively, though less frequently. In addition, the experienced personnel report using it both more effectively but to deal with different stressors compared with new employees. Overall, moral support is reported at higher levels than emotional support. Furthermore, Pakistan scored higher in both types of support. In terms of the staff categories, teaching staff often receive higher emotional support, whereas higher moral support is reported to be received by non-teaching staff.

It is a subtle but importand difference, we feel, that women report receiving higher emotional support, while males report receiving higher *moral support*. *Acute* stress is reported at higher levels by females, while *chronic* (ie. more-or-less permanent) stress is reported by male counterparts.

Though the representation of occupational therapists is higher in the UK, their reported effectiveness is non-significant in both countries. Moreover, the role of occupational therapist as reported to us, has no-significant impact on organisational commitment (AC, NC, and CC) of public university personnel in both countries. Neither did perceived job stress have a significant impact on CC.

Self-reported personal strain, personal resources and social support do have a significant impact on AC, NC, and CC. Interestingly, the total effect of all predictors is higher for AC, which is higher among males, while NC and CC are higher for females. Teaching staff report higher AC and CC, whereas NC is higher in non-teaching staff. In addition, AC and CC are higher in the emerging economy, while NC is higher in the developed economy. Nevertheless, there is evidence to suggest that organisational commitment does indeed tend to alter according to changing circumstances.

# CHAPTER 6: OVERALL CONCLUSION, CONTRIBUTION AND IMPLICATIONS

## **6.1 Introduction**

We turn now to our contribution, managerial implications, limitations and suggestions for future researchers. Here we restate each of our objectives against each principle contribution made here. We remain interested especially in sustaining human capital by improving organisational commitment and reducing the stress among public universities' personnel in the UK and Pakistan. For the sake of clarity objectives and findings are tabulated as follows:

| Research Questions   | Research Outcome   |  |  |  |
|--|--|--|--|--|
| How do the varying   | Varying stressors affect teachers and administrators differently   |  |  |  |
| stressors: personal,<br>organisational and<br>environmental, affect<br>the affective, normative<br>and continuance<br>commitment of teaching<br>and administrative<br>university staff in the UK | Organisational sources of stress are reported more frequently in<br>the UK than Pakistan, and there is evidence that affective,<br>normative and continuance commitment is higher in Pakistan,<br>due, we suspect to different organisational regimes.<br>Their organisations cause higher reported stress among men<br>compared with women, while personal sources of stress are<br>more likely to be reported by women (in either country).  |  |  |  |
| and Pakistan?  | The relationship between different attributed sources of stress<br>and differences in self reported affective- and continuance-<br>commitment is interesting. These differing types of commitment<br>are higher in men than in women.<br>In terms of the staff categories studied, organisational stressors<br>affect teaching staff more whereas personal and environmental<br>features seem to feature more prominently among non-teaching<br>staff.<br>Affective- and continuance commitment is higher among<br>teaching staff while administrative staff self-report higher<br>normative commitment. |  |  |  |
| How do the physical,<br>behavioural, cognitive<br>and emotional  | Both statistical and qualitative analysis confirm that, emotional (psychological) consequences are common among university personnel in the UK and Pakistan.   |  |  |  |
| consequences<br>concerning the<br>distinctive antecedent of  | Nevertheless, a break-down shows that emotional, physical and<br>behavioural are the common reported consequences in Pakistan,<br>cognitive consequences are higher in the UK.   |  |  |  |
| organisational commitment, vary  | Women report emotional and cognitive symptoms whereas male respondents tend to report physical and behavioural symptoms,   |  |  |  |

 Table 6. 1: Research questions and research outcomes

| between the teaching<br>and administrative<br>public university staff in<br>the UK and Pakistan?  | irrespective of the type of economies. Lastly, emotional consequences are more likely to be reported among teaching staff while physical symptoms tend to be reported by administrative staff in <i>both</i> the UK and Pakistan.<br>The organisational commitment of the teaching and non-teaching personnel seems to be the result of the varying consequences of stress experienced. Stress is reported at higher rates among the young and less experienced university personnel, who often report emotional and cognitive symptoms. |
|---|--|
| Are social support     programmes effective in     sustaining human     capital within public     universities in the UK                | The visibility and effectiveness of formal 'social support' is higher<br>in Pakistan than the UK. Our data indicates that it helps in<br>sustaining human capital in both tutors and administrators who<br>report higher organisational commitment towards their respective<br>universities.   |
| and Pakistan?   | Informal social support reduces stress, especially among mature<br>workforces for whom it protects against different types of<br>stressor. Women report using it more frequently than do men, but<br>males reported it as being more effective for stress reduction.   |
|   | Teaching staff report its effectiveness more than do administrative staff.<br>The evidence suggests that social support programmes are   |
|   | effective in providing emotional and moral support, enabling<br>staffs to suastain higher self-repoted levels of organisational<br>commitment.   |
|   | Women commonly report receiving 'emotional support' while<br>males reported attaining 'moral support' through such<br>programmes. Both formal and informal support emerge as<br>significantly strengthening organisational commitment.   |
| To what extent are the<br>visibility and<br>effectiveness of the<br>professional<br>occupational therapist's<br>roles evident in public | The presence of professional occupational therapy is quite low<br>and reflects in respondents' awareness of it. Nevertheless, its<br>visibility and effectiveness are reported as higher in the UK (a<br>developed economy) than in Pakistan (an emerging economy).<br>There was a country-difference here too.  |
| universities in the UK<br>and Pakistan?   | It is more visible to, and effective among teaching rather than<br>administrators, and for women than for men. However, we found<br>only limited reports of the effectiveness of occupational<br>therapists, in both countries.  |

# **6.2 Overall Conclusion**

<u>Objective 1</u>: "To examine the varying occupational stressors affecting the organisational commitment of males and females working at teaching and non-teaching faculties within the public universities of the UK and Pakistan."

As the relevant Pearson Chi-Square sig value is less than alpha (=.047 < 0.05,  $p < \alpha$ ),we can state with confidence that *the reported causes of stress differ significantly between the UK and Pakistan* with organisational factors being the most commonly reported stressors at the public universities in both the UK and Pakistan.

The next most common stressors reported were personal and environmental. While organisational factors significantly higher in the UK than Pakistan (55.9% against 43.6%), personal and environmental sources of stress were reported at a significantly higher rate in Pakistan than in the UK (38.2% against 29.9%; 18.1% against 14.2%).

In this regard, Haque and Aston (2016) and Haque *et al.*, (2018) are confirmed. Considering gender, the likelihood ratio is highly statistically significant (=0.000 < 0.05,  $p < \alpha$ ), confirming that the reported causes of stress differ for men and women. Detailed analysis revealed that overall, organisational factors affect both men and women most, followed by personal and environmental sources of stress (49.8% > 34.1% > 16.2%), though as stated above, their organisation was a more prominent source of stress to males (57%), and personal sources of stress to females (48.5%). In these respects, our findings refute Kumasey *et al.*, (2014) and Cicei (2012), while confirm both Haque and Aston (2016) and Haque *et al.*, (2016).

With a Pearson Chi-Square sig-value less than alpha (=0.000 < 0.05,  $p < \alpha$ ), stress varies highly significantly for teaching and administrative staff. Detailed analysis revealed that, organisational stressors affect teaching staff more, while personal factors and environmental factors influence non-teaching staff more frequently (62.7% against 39.7% and 23.5%). This study supports, to some extent both Sackey and Sanda (2011) and Haque and Aston (2016) in that personnel with a different set of jobs are affected by different sources of stress. The Crammer V value confirmed a small to moderate, but statistically significant, effect of varying stressors on all three dimensions: gender, faculty and type of economy.

Qualitative analysis further confirmed that public university staff are affected by organisational, personal and environmental factors, with organisational and personal sources of stress equally evident in the UK and Pakistan (39% against 35%; and 39% against 35%).

In Pakistan organisational factors are reported higher than personal and environmental sources of stress among teaching staff (41% > 37% > 18%), whereas personal sources are mentioned more frequently than organisational and environmental factors for non-teaching staff (37% > 33% > 27%).

Overall males state that organisational factors affect them more than environmental and personal factors (53% against 35% and 8%), while females state that personal factors, rather than organisational and environmental factors, affect them more (65% against 20% and 10%). Hence, at public universities in both the UK and Pakistan, organisational factors cause higher stress to males, while women report more frequently that they are stressed by personal factors. These qualitative findings are aligned with the quantitative results and Sackey and Sanda (2011), Haque and Aston (2016), Haque *et al.* (2016), and Haque *et al.* (2018) are all supported, while Kumasey *et al.* (2014) and Cicei (2012) is, to a certain extent, contradicted.

As all three types of stressor are evident in the public universities of the UK and Pakistan, Stranks (2005) is supported. Interestingly, the analysis revealed that long working hours, conventional structures, lack of control and workload are commonly disliked, job-related causes of stress, supporting Mark and Smith (2018).

The qualitative findings indicate that, overall, "interacting and communicating", followed by "structural pattern" and "expanding knowledge" are the most liked job attributes (26% > 24% > 19%). Nevertheless, teaching staff prefer highly "expanding knowledge", while non-teaching staff prefer "structural pattern" (33% against 41%). Males reported as favouring "structural pattern", while females marginally preferred "interacting and communicating" (29% against 27%). Within the two countries, gender variations are evident, but long working hours, conventional structures and workloads are disliked equally in the UK and Pakistan (22% > 21% > 20%). For teaching staff, long working hours and for administrators, workload were the stated disliked job-related features (24% against 22%). Men responded with long working hours as a disliked job-attribute, but females, conventional structures (24% against 20%), consistent with Haque *et al.*, (2018), Mark and Smith (2018) and Haque and Aston (2016).

Interestingly, organisational politics is a stressor that is evident in the UK, which is a new development. Additionally, within personal factors, family problems and personality clashes are reported at higher rates by UK female university employees, comparatively speaking, while family and financial issues cause stress to Pakistani women; males in both countries reporting that they are highly affected by task demands (which we have classified as an 'organisational factor').

# **Objective 2:** "To examine the varying consequences of occupational stress among males and females working at teaching and non-teaching faculties within public universities of the UK and Pakistan."

From the statistical test, it is evident that the reported consequences of stress differ in the UK and Pakistan, as the sig-value of the Pearson Chi-square is less than alpha (=.020 < 0.05,  $p < \alpha$ ), this shows a statistically significantly difference between countries. Overall, public university personnel report a high level of emotional (psychological) stress symptoms in both the UK and Pakistan (33.1%). However, after emotional symptoms, behavioural and physical symptoms are higher in Pakistan (22.5% and 20.6%), while cognitive symptoms (the effects on cognitive efficiency) are higher in the UK (29.9%).

Emotional and physical symptoms are the most common reported consequences of stressors in the UK and Pakistan. This study differs from Haque *et al.*, (2016) and Haque *et al.*, (2018), but supports Mark and Smith (2018), to a certain extent. With regard to gender, the Likelihood ratio sig-value is less than the alpha (=0.000 < 0.05,  $p < \alpha$ ), indicating that the consequences of stress differ in a *highly statistically significant* way between men and women surveyed. Detailed analysis revealed that female personnel, in contrast to male staff, report higher emotional symptoms (48.5% against 18.1%) and cognitive symptoms (30.2% against 8.8%), whereas males, reported higher physical symptoms (37.7% against 12.4%) and behavioural symptoms (35.3% against 8.8%).

Nevertheless, a higher degree of both physical and psychological effects of stress were reported by staffs in both the UK and Pakistan, largely, supporting Mark and Smith (2018).

Lastly, the Pearson Chi-Square sig value confirmed that that the consequences of stress are statistically significantly different for teaching and administrative staff (=0.004 < 0.05,  $p < \alpha$ ). Detailed analysis revealed that teaching staff report emotional effects to a greater extent (35.8%), whereas non-teaching staff report physical symptoms in large numbers (32.8%). In both countries staff behavioural and cognitive symptoms were reported. Since the findings confirmed that psychological and physiological symptoms are widespread among public university personnel this is consistent with Mark and Smith (2018) and Stranks (2006), but challenges Haque and Aston (2016), Haque *et al.*, (2016), and Haque *et al.*, (2018). Crammer's V value confirmed that the effect is small to moderate but statistically significant for all three dimensions: gender, faculty and types of economy.

The qualitative findings confirmed that overall psychological (emotional) consequences are reported by as many as 36% of all staffs across both countries sampled. In the UK, emotional and cognitive symptoms are slightly higher than Pakistan (37% against 35%; and 12% against

8%), whereas bigger differences in behavioural and physical consequences are reported by university staff in Pakistan (33% against 24%; and 22% against 18%).

Overall, teaching staff reported higher psychological symptoms (39%), whereas non-teaching staff reported higher behavioural (29%) and physiological effects of stress (27%). Concerning gender, psychological symptoms are higher in females (43%), while behavioural, physiological and psychological symptoms are higher among males (41% > 22% > 22%). Both psychological and physiological symptoms are confirmed qualitatively. These results are aligned with Stranks (2006) and Mark and Smith (2018). The varying consequences, by country, gender and faculty, depart strongly from Haque and Aston (2016), Haque *et al.*, (2016) and Haque *et al.*, (2018).

Not only does our 'funnel approach' reveal that young, less-experienced employees are more likely to report stress, more young employees report psychological symptoms, whereas experienced employees report higher physical and behavioural stress effects. Another important finding is that acute stress (hyper-stress) is evident among female personnel, whereas chronic stress is more prevalent in males.

# <u>Objective 3:</u> "To evaluate the potential impact of the effectiveness of the occupational therapist, perceived job stress, personal strain, personal resources and social support for the organisational commitment of public universities' personnel in the UK and Pakistan."

From the quantitative investigation, it is evident that personal strain, personal resources and social support, have large reported effects on organisational commitment, while to some extent perceived job stress affects organisational commitment though the rated effectiveness of occupational therapy is non-significant. Through a partially recursive model, it is confirmed that personal strain has a statistically significant impact on all three antecedents of organisational commitment. Its impact is statistically highly significant in its effects on affective commitment, while barely statistically significant regarding normative commitment and continuance commitment (p-value=0.0000 < 0.05,  $p < \alpha$ ; =0.011,  $p < \alpha$ ; =0.030,  $p < \alpha$ ). In this regard, the present findings confirm, to a certain extent, Brannon and Fiest (1992), Sackey and Sanda (2011) and Haque and Aston (2016) in that personal strain is interlinked with organisational commitment.

Concerning gender, faculty, and type of economy, the findings show that personal strain has *highly* significant reported effects on AC in Pakistan, though less significant effects n the UK (=.000 < 0.05,  $p < \alpha$ ; =.023 < 0.05,  $p < \alpha$ ). Furthermore, personal strain is shown to have a statistically significant impact on normative commitment in both sampled countries (=.011 <

0.05,  $p < \alpha$ ; =.020 < 0.05,  $p < \alpha$ ). Hence, this study differs from Zehra *et al.*, (2017b). Our findings indicate that strain has a significant impact on continuance commitment in both countries (=.030 < 0.05,  $p < \alpha$  =.021 < 0.05,  $p < \alpha$ ) and a higher effect on organisational commitment in Pakistan. Overall, the impact is statistically significant. The group statistics further confirmed that personal strain is more visible in the UK than in Pakistan (=1.2603 < 1.2812).

Considering gender, personal strain is statistically significant in affecting males' AC, yet nonsignificant for females' (=.001 < 0.05,  $p < \alpha$  =.096 > 0.05,  $p > \alpha$ ) a finding that conflicts with Sackey and Sanda (2011) and Brannon and Fiest (1992), while being consistent with Haque *et al.* (2016). Personal strain significantly affects the NC of both sexes (=0.013 < 0.05,  $p < \alpha$ ; =0.031 < 0.05,  $p < \alpha$ ), while males are more significantly affected than females. Overall, both genders' NC is affected significantly by personal strain, a finding consistent with Brannon and Fiest (1992), Sackey and Sanda (2011) and Haque *et al.*, (2016). Lastly, females' continuance commitment is affected by personal strain to a significant degree, whereas males' CC is not significantly affected (=0.002 < 0.05,  $p < \alpha$ ; =0.435 > 0.05). The CC of males and females differ, in that personal strain has a non-significant impact on males' CC, while it has a significant impact on females' CC. In this respect, this differs from Haque *et al.*, (2016). Group statistics show that women reported personal strain as being more than do men (=3.6403 < 3.9853).

Personal strain affects the AC of teaching and administrative staff significantly (=0.000 < 0.05,  $p < \alpha$ ; =0.002 < 0.05,  $p < \alpha$ ). This is a new development but partially supports Haque and Yamaoh (2014) and Haque and Aston (2016). Personal strain is reported as highly visible among teaching staff, in contrast to administrators (=1.2298 < 1.3106).

Perceived job stress has a highly significantly effect upon AC and NC but a non-significant impact on CC, affecting affective commitment in the UK and Pakistan (=0.002 < 0.05,  $p < \alpha$ ; =0.000 < 0.05,  $p < \alpha$ ), supporting Mark and Smith (2008), to some extent, while differing from Haque and Aston (2016) with respect to contrasting economies. Furthermore, normative commitment affected to a highly significant degree by perceived job stress (=0.000 <0.05,  $p < \alpha$ ; 0.000 < 0.05,  $p < \alpha$ ), consistent with Haque and Aston (2016) and Zehra *et al.*, (2017b). Interestingly, continuance commitment is affected non-significantly by perceived job stress in the contrasting economies (=0.136 > 0.05,  $p > \alpha$ ; 0.220 > 0.05,  $p > \alpha$ ). Perceived job stress has no significant role in determining the CC of respondent in both countries, supporting Zehra *et al.*, (2017b), while conflicting with Haque and Aston (2016).

In terms of gender, AC is statistically significantly affected by perceived job stress (=0.002 < 0.05,  $p < \alpha$ ; =0.002 < 0.05,  $p < \alpha$ ). Perceived job stress has a significantly different effect on men's and women's AC, differing from Haque *et al.*, (2016), Kumasey *et al.*, (2014) and Sackey and Sanda (2011). Moreover, 'perceived job stress' has statistically significantly different effects on NC by gender (=0.002 < 0.05,  $p < \alpha$ ; =0.046 < 0.05,  $p < \alpha$ ), again, diverging from the authors mentioned above.

We have statistical confirmation that continuance commitment in male respondents is significantly affected by perceived job stress, whereas females' CC is non-significantly affected by it (=0.012 < 0.05,  $p < \alpha$ ; =0.700 > 0.05,  $p > \alpha$ ). Men's CC is significantly reduced owing by perceived job stress, but not women's CC. These findings contradict Hemdi (2009) and Kumasey *et al.*, (2014), but are consistent with Haque and Yamoah (2014), Haque and Aston (2016), Haque *et al.*, (2016) and Haque *et al.*, (2018).

Perceived job stress significantly affects the affective commitment of teaching staff, whereas it has *highly* significantly impact on the AC of non-teaching staffs (=0.015 < 0.05,  $p < \alpha$ ; =0.000 < 0.05). This is a new finding. The normative commitment of administrative staff is affected by perceived job stress to a highly significant extent, but it has no significant impact on the NC of teaching staff (=0.000 < 0.05,  $p < \alpha$ ; =0.344 > 0.05,  $p > \alpha$ ). Again, this is a new development. Perceived job stress has statistically significant effects on the continuance commitment of non-teaching staff but a non-significant impact on the CC of teaching staff (=.040 < 0.05,  $p < \alpha$ ; =.656 < 0.05,  $p > \alpha$ ). This is also a new development. Though there is no conclusive evidence from the literature regarding these occupational groups, these findings support Haque and Aston (2016). The group statistics confirm that perceived job stress has higher visibility in the UK than in Pakistan (=3.6732 < 3.8799). In terms of gender, it is also reported as more visible by men than women (3.6196 < 3.9330) and is reported as highly visible in teaching staff compared with administrative staff (=3.7575 < 3.8007).

The role and effectiveness of the occupational therapist has a non-significant impacts on selfreported affective-, normative- and continuance commitment respondents in either country (AC=0.616 > 0.05,  $p > \alpha$ ; AC=0.070 > 0.05,  $p > \alpha$ ; (NC=0.784 > 0.05,  $p > \alpha$ ; NC=0.986 > 0.05,  $p > \alpha$ ; (CC=0.18 > 0.05,  $p > \alpha$ ; CC=0.872 > 0.05,  $p > \alpha$ ). This finding differs from Haque and Aston (2016). However, occupational therapy has a greater presence and reported effectiveness in the UK, compared with Pakistan (RR=0.3040 < 0.3984; EOP=3.2467 < 3.5964). Its impact is non-significant for the AC, NC and CC of teaching and administrative staff (Teaching: AC=0.431 > 0.05,  $p > \alpha$ ; NC=0.487 > 0.05,  $p > \alpha$ ; CC=0.126 > 0.05,  $p > \alpha$ ; Non-teaching: AC=0.475 > 0.05,  $p > \alpha$ ; NC=0.878 > 0.05,  $p > \alpha$ ; CC=0.144 > 0.05). Nevertheless, its perceived presence and effectiveness is more pronounced among non-teaching personnel (RR=.3379 < .3645; EOP=3.0082 < 3.8350).

Our data indicates that women's AC and NC are affected significantly; while males' AC and CC are affected non-significantly by occupational therapist. It affects females' CC but in nonsignificantly, while it significantly affects males' CC (Female: AC=0.025 < 0.05,  $p < \alpha$ ; NC=0.047 < 0.05,  $p < \alpha$ ; Male: AC=0.875 > 0.05,  $p > \alpha$ ; CC=0.704 > 0.05,  $p > \alpha$ ; Male: NC=0.318 > 0.05,  $p > \alpha$ ; CC=0.002 < 0.05,  $p < \alpha$ ). These findings are consistent with Haque *et al.*, (2016). Women seem more aware of occupational therapy than men (RR=0.2486 < 0.3284; EOP=3.3203 < 3.5264). Moreover, the qualitative findings confirm that its representation and perceived effectiveness is higher in the UK than Pakistan (29%). Its effectiveness is rated higher among non-teaching staff (31%), and in males, while females reported that they did not find occupational therapy effective in reducing stress (27% against 6%).

We had suspected that personal resources would have impacts; indeed overall, it has a statistically significant impact on AC and NC and a highly significant impact CC. In terms of the two economies, AC, NC and CC are affected significantly by personal resources in the UK and Pakistan (UK: AC=0.016 < 0.05,  $p < \alpha$ ; NC=0.018 < 0.05,  $p < \alpha$ ; CC=0.000 < 0.05,  $p < \alpha$ ; Pakistan: AC=0.031 < 0.05,  $p < \alpha$ ; NC=0.016 < 0.05,  $p < \alpha$ ; CC=0.026 < 0.05,  $p < \alpha$ ), a finding which supports Haque *et al.* (2018), Zehra *et al.*, (2017a), Haque and Aston (2016), Haque *et al.*, (2016) and Mark and Smith (2008), but contradicts Yilmaz, *et al.*'s (2014) to some extent. Interestingly, the group statistics confirmed that personal resources are felt as more salient in Pakistan than in the UK (=3.4436 < 3.5906).

Personal resources affect the CC of male and female personnel significantly (=0.017 < 0.05, p <  $\alpha$ ; =0.022 < 0.05,  $p < \alpha$ ); males' AC and females' NC are also affected significantly by personal resources (Male: AC=0.001 < 0.05,  $p < \alpha$ ; Female: NC=0.007 < 0.05,  $p < \alpha$ ), while they have no significant impact on the AC of females and NC of males (Female: AC=0.821 > 0.05,  $p > \alpha$ ; Male: NC=0.229 > 0.05,  $p > \alpha$ ). This differs from Kumasey *et al.*, (2014) but is aligned with Haque and Aston (2016), Haque *et al.*, (2016) and Sackey and Sanda (2011). Group statistics revealed that the self-reported visibility of the effective use of personal resources is higher among females than males (=3.8391 < 3.9985).

It is evident that personal resources affects the AC, NC, and CC of teaching staff in a highly statistically significant manner and significantly affect administrative staff (Teaching: AC=0.007 < 0.05,  $p < \alpha$ ; NC=0.000 < 0.05,  $p < \alpha$ ; CC=0.009 < 0.05,  $p < \alpha$ ; Non-teaching: AC=0.041 < 0.05,  $p < \alpha$ ; NC=.005 < 0.05,  $p < \alpha$ ; CC=.011 < 0.05,  $p < \alpha$ ). This is a new development. Group statistics suggest that reliance on personal resources is higher among non-teaching staff. (=3.3775 < 3.6569). The interview data indicates that stress management programmes are effective in dealing with stress (35%). However, they are more commonly used by UK employees (57% against 50% in Pakistan). Overall, teaching staff consider these programmes more effective than do non-teaching staff (40% against 30%), women more so than men (43% against 20%).

Overall, social support is found to have a statistically significant impact on affective commitment and a *highly* significant impact on the normative and continuance commitment of university personnel as a whole. It is evident that social support has a statistically significant impact on AC and NC and a highly significant impact on the CC of respondents in both countries (UK: AC=0.011 < 0.05,  $p < \alpha$ ; NC=0.000 < 0.05,  $p < \alpha$ ; CC=0.000 < 0.05,  $p < \alpha$ ; PAK: AC=0.003 < 0.05,  $p < \alpha$ ; NC=0.032 < 0.05,  $p < \alpha$ ; CC=0.000 < 0.05,  $p < \alpha$ ). This supports Haque et al., (2018), Haque and Aston (2016), Haque et al., (2016) and Sackey and Sanda (2011) but differs partially from Zehra and Faizan (2017). The group statistics confirmed that social support is reported as more visible in Pakistan than in the UK (=3.6756 < 3.7426). In terms of gender, social support has a statistically significant role in determining organisational commitment overall (Male: AC=0.009 < 0.05,  $p < \alpha$ ; NC=0.035 < 0.05,  $p < \alpha$ ; CC=0.009 < 0.05,  $p < \alpha$ ; Female: 0.001 < 0.05,  $p < \alpha$ ; NC=0.002 < 0.05  $p < \alpha$ ; CC=0.025 < 0.05,  $p < \alpha$ ). Females report its higher visibility than do males regarding effective use of social support (=3.0842 < 3.3284). All three forms of organisational commitment are affected significantly by social support at the workplace (Teaching: AC=0.004 < 0.05,  $p < \alpha$ ; NC=.004 < 0.05,  $p < \alpha$ ;  $\alpha$ ; CC=.008 < 0.05,  $p < \alpha$ ; Non-teaching: AC=0.006 < 0.05,  $p < \alpha$ ; NC=.002 < 0.05,  $p < \alpha$ ; CC=.001 < 0.05,  $p < \alpha$ ). This is a new finding. Moreover, group statistics show that nonteaching staff report greater reliance on social support, than do teaching staff (=3.4608 <3.9583).

The interviews showed that overall, 28% of university personnel find social support highly effective and exactly half considered it effective. Interestingly, this finding supports our statistical data showing a stronger preference, usage and felt effectiveness of social support (82%) in Pakistan. Teaching and non-teaching staff consider informal social support as

effective (84% against 71%). However, the quantitative findings suggest it has higher visibility among non-teaching staff, but higher effective usage among teaching staff. Similarly, social support was reported as more visibile to females, while the interviews showed that, overall, males seem to use social support more efficiently than females in both countries (84% against 79%; and 83% against 69%). Social support emerges as more visible among females but used effectively by males.

The funnel approach confirmed that experienced employees (age 40 or above with 7 or more years' experience) felt they useed social support constructively, partially supporting Mark and Smith (2018), but refuting Haque *et al.*, (2018), Haque *et al.*, (2016) and Haque and Aston (2016). Overall, most university personnel reported receiving more moral support than emotional support (36% against 27%). Nevertheless, moral and emotional support were more evident in Pakistan than in the UK (45% against 27%; and 31% against 22%). Interestingly, teaching staff felt they received higher emotional support, while non-teaching staff identified themselves as receiving moral support (37% against 41%). Males commonly felt they received *moral* support (47%), while females frequently stated they received *emotional* support (41%). These findings support Haque *et al.*, (2018), Haque *et al.*, (2016) and Haque and Aston (2016).

All three antecedents of self-reported organisational commitment are higher in Pakistan than in the UK (AC=3.6103 < 3.9583, NC=3.4510 < 3.9804, CC=3.3676 < 3.6324), the interview data confirm this (AC= 67% against 65%; NC=92% against 78%; CC= 69% against 56%). This directly supports Haque and Aston (2016), while it differs partiallyfrom Haque *et al.*, (2018), studies of the IT and Cargo Logistic sectors. Indeed from a G-GCT perspective the findings can be read the otherway round, namely that as Organisational Commitment can be thought of an index for social solidarity, then it has a moderating effect on 'occupational stress'. High solidarity is an important cultural resource in that it contributes collective resilliance.

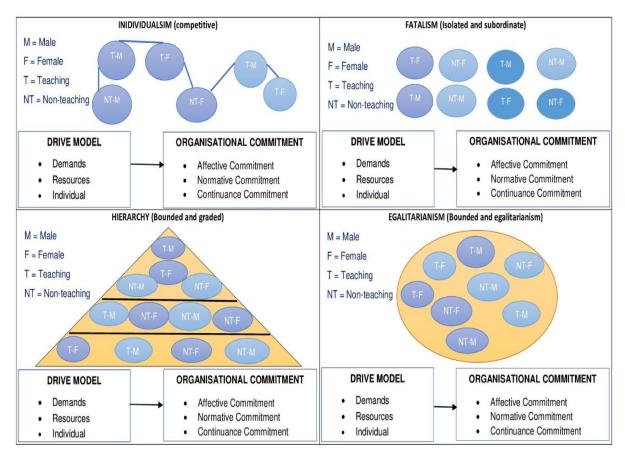
In terms of gender, group statistics revealed that AC is highly visible among males, whereas NC and CC are self-reported as higher among females (Male: AC=3.1708 < 4.4044; Female: NC=3.6287 < 3.8137, CC=3.0637 < 3.9356), the interviews confirming this (79% against 52%). This study supports Haque and Yamoah (2014), Tan and Lau (2012) and Mathieu and Zajac (1990), but differs from Haque *et al.*, (2016). The qualitative findings also confirmed that NC and CC are higher among females than males (NC=86% against 84%; CC=67% against 58%). This finding differs from Haque and Aston (2016) but as CC is clearly higher among females, this supports Haque and Aston (2016), and Haque and Yamaoh (2016).

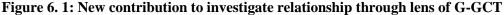
In terms of staff categories, group statistics show that AC and NC are more visible among nonteaching staff, while CC highly visible among teaching staff (teaching: CC=3.3873 < 3.6127, non-teaching: NC=3.5735 < 3.578, non-teaching: AC=3.6275 < 3.9412), the interviews showing the same though the difference is marginal (AC=69% against 65%; NC=88% against 82%)<sup>1</sup>, while teaching staff have higher CC than administrative staff (73% against 51%). These are new findings but consistent with Chaudhry (2012) and Jackson and Rothman (2006). Moreover, despite higher power distance and collectivism (ie. 'Hierarchy' in G-GCT terms), organisational commitment is higher in Pakistan, than the UK. Nonetheless, there is evidence of gender and staff-type variations. While employees with more experience have higher AC, NC, and CC, traces of "situational commitment" are also evident, attributable to changing institutional features and dynamics.

## **6.3 Research Contributions**

This project contributes in several ways, namely to measuring and understanding the relationship between occupational stress and organisational commitment comparatively. The researcher has taken care to differentiate concepts, adding a cultural dimension new to the field. We propose that cultural variations have a role in determining the relationship between stress and commitment in a professional setting. Previously, researchers treated occupational stress and organisational commitment in a general manner unaware of G-GCT to begin to understand gender, faculty and country variations. We commend G-GCT as it differentiates easily and specifically between different forms of reasoning in a simple and dynamic way, showing why cultures shift, indeed showing what 'culture' is.

<sup>&</sup>lt;sup>1</sup> Note that the interviews can seem less sensitive to each variable than the survey was.





While our subject matter has been studied comparatively before, we have not found work that explains the variables of interest culturally. Moreover, because all four rationalities (Hierarchical, Egalitarian, Individualistic and Fatalistic) are 'culturally available, it is easier to understand why a given culture at a given moment contains cultural contradictions. For example in Pakistan, Fatalism exists in the contradictory presence of the Hierarchical form of collectivism in Pakistan. These constitute the top left and top right positions on the G-GCT typology (above), ie Low-Group and High Grid, coexisting with High-Group and High Grid). Meanwhile Egalitarianism (High-Group and Low-Grid) coexists with Individualism (Low-Grid and Low Group). As thought stypes are in dynamic conflict we can expect that both countries will change over time. Indeed, for all their differences, all cultures represent temporary though institutionalised dynamic intearcations between the same for available rationalities. This new approach should prove useful to understanding all the variables of interest to us but in a new way that departs from Hofstede's rather fixed and descriptive treatment of so-called 'national cultures'. We emphasise: there is nothing essentially different between, say Fatalistic reasoning in Pakistan and Fatalistic reasoning anywhere else. The reasoning (and its associated fear of risk) is the same.

However cross-cultural comparison shows some effects which were strong enough to surprise this author and helped to open new pathways to new findings. We suggest that rather than treat 'gender' as a fixed category, it may be re-theorised using G-GCT, to the extent that one's gender is a cultural phenomenon carrying varying sensitivities to risk and therefore variable sensitivity to 'stress'. For instance, Individualistic reasoning is very tolerant of risk and by implication, revels in risk rather than hides from it. But Fatalistic reasoning is acutely sensitive to risk and is thus more stressed by what appears to be the some 'risk environment'. That is each thought style comes with different susceptibility to stress, and the 'stressors' are perceived differently.

We have also contributed by testing the DRIVE model in the education sector in terms of gender, faculty type and types of economy.

The DRIVE model has not been used so multi-dimensionally before. The model was extended by adding organisational commitment.



#### Figure 6. 2: New dimensions contributed to the DRIVE Model

Previous studies had considered Hofstede's cultural dimensions but not to compare developed and emerging economies. Moreover, this thesis contributes to the body of knowledge through using institutional theory, which though used for the public sectors has been limited to single case studies, whereas we have adapted it for comparative analysis. Previous studies have heavily relied on discrete comparisons between variables treated singly. However, we have included multi-dimensions within one construct. We have also drawn on both qualitative and quantitative data to see how well these different findings support or depart from each other, improving robustness.

Sme studies have focused on the causes of stress, the mediating roles of personal strain, perceived job stress, personal resources, role and effectiveness of occupational therapists while other explored the specific type of organisational commitment through single case study. There was little or no evidence of which among these factors was most significantly linked to variables of interest. For this reason, we incorporated all the previously considered variables within one construct, adding new dimensions including different economies, gender, and faculty types. Our 'three-dimensional' approach (that is, contrasting economies, gender, and faculty) examines the causes and consequences of stress along with other variables in relation to stress and commitment within one construct. This is a more holistic view to the problem statement than found in previous studies.

It is our criticism that previous studies are region specific and over-reliant on single case study whereas this research offeres the possibility of broader generalization of findings of which we can be confident.

It is a useful finding that social support and stress management programmes are felt by respondents to be effective for reducing stress and in our language 'sustaining human capital'. We urge university policymakers to develop national and global standards for dealing with stress-related issues in complex business environments and to evaluate the effectiveness of different forms of intervention. The use of ABC (awareness, balance, and control) strategy is recommended to the university administrations as a means to reducing stress in professional settings.

Though comparative research is not new to our field, researchers either used pure quantitative or purely qualitative analysis, whereas we have combined them pragmatically. It has been shown how quantitative-cum-qualitative research can be used for examining the same variables of interest.

We took care, using multiple statistical tools to cross check for accuracy and reliability again improving robustness through the use of advanced statistical tools. Previously, researchers had relied too heavily on single regression to measure the relationship between stress and commitment whereas this study used multiple regressions to examine the same relations. Thus, the present study is a methodological advance. Robustness matters:

First structural equation modeling was used to establish the overall relationship and total size effect, then multiple regressions for variations among genders, faculties, and types of economy. Moreover, for the categorical data, Chi-square testing was also included. Previously, for similar variables of interest, researchers relied on SEM, Chi-Square or single regressions. By using Q-Q plots for explaining the normality assumption and avoiding over-reliance on the statistical tests alone we also improved robustness. While some researchers have adopted this stance they have not directed it at stress and commitment in a cross-sectional manner.

This research has confirmed or contradicted, several recognised earlier studies; updating the literature on organisational commitment, occupational stress and social support. Previously there was no comparative study of the education sector. We feel it important that we have included different variables within one construct that were previously studied separately. A pleasing and perhaps unexpected finding is that *despite the rarity of occupational therapists' presence, the level of organisational commitment is higher in the emerging economy than in the advanced economy.* This finding causes us to question the meaning of 'developed' and 'under-developed'. It is most striking that organisational commitment is higher in the country with lower individualism and higher power distance and collectivism (ie. Hierarchy). Thus, this study contributes to new knowledge in the cultural aspect. We also found that age and experience have a definite role in dealing with stress and improved commitment, which adds the new knowledge to this field.

Additionally, while G-GCT has been applied to many settings, to our knowledge it has *never* been applied in this field.

Applied drama is another practical recommendation for the institutions to prepare the personnel to manage stress at workplace. Applied Drama (AD) takes many forms each of which enable participants to analyse, prepare and intervene on problems, objectively and therfore without animosity. Prepared Role-Plays modelled of regrettable events offers ways of finding new solutions in similar situations. Jackson and Vine (2013) while exploring the theatre within the education found that, applied drama educates participants in issues of immediate relevance to them and their communities. Furthermore. "it has always been among the most socially

conscious of theatre groups, consistently choosing to examine issues they believe to be of direct relevance to the lives of the individuals with whom they work" (Jackson and Vine, 2013). Meaningful prepared role-plays are an effective technique, which explores both familiar and unfamiliar and challenging situations. That is that they enable exploration and reduction of stressors in the workplace). It would be effective to see how the personnel respond to such situations by first using their own approach then experimenting with different possible solutions (in a testing process). The dialogues thus opened might work as ventilation therapy for some individuals while other might benefit in real time through viewing it as a chance to resolve the conflict. Furthermore, it can build self-confidence when handling realistic challenges but in a safe environment. Individuals would then be quick to take more effective steps when the moment came. Such increased competence should bring with it improved protection against burn-out and stress sensitivity. In G-GCT terms it would be valuable during brainstorming sessions to reflect on the equally reasonable and yet conflicting rationalities employed by participants, so each appreciate the four different perspectives.

Learning Sets are another of preparing personnel to cope creatively with each stressful situation. These are small gatherings in which participants explore each other's approach to difficulties, test out and review different solutions in three-monthly cycles. When one solution fails the Set can assist in the development of new solutions. Again there is provision here for 'ventilation therapy' allied to initiative-taking.

Lastly, the use of both the "hypothetico-deductive-inductive" and "hypothetico-inductivedeductive" approaches, within one construct is a methodological contribution not seen previously in studies of the relationship between occupational stress and organisational commitment. In other words, this has opened up a new passage for future researchers to combine two approaches in investigating the "variables of interest" in a complex environment.

#### **6.4 Research Implications**

This section is divided into two parts. The first part contains the research suggestions for the future, while the second offers further practical implications to public universities for sustaining human capital and reducing occupational stress.

Future researchers shall consider the option of using controlled variables to explore further variations in variables of interest. We recommend further use of the same research framework. It is a point for discussion whether or not to ask respondents to provide direct and concrete answers as to, say what physical and psychological symptoms their GPs have diagnosed in

them, as an alternative to our 'attitudinal' approach. There remains a case for collecting employees patient histories though it would be laborious. In our own defence, the attitudinal approach does provide access to respondent's subjective world and this is defensible in that it is the world which they occupy. Our point is that the relationships between the variables of interest operate not just objectively as a whole but subjectively within the minds of employees. In other words, if 'stress' affects 'commitment' someone will be perceiving and defining that stress and that act will have a bearing on how it affects them.

In future researchers could consider the use of focus group interviews with experts in order to gain a deeper understanding of the research variables. It will be interesting if future researchers use both individual interviews with university personnel and group interviews with experts from the education sector in order to explore research variables in more depth. Perhaps, this might lead to having a more comprehensive understanding. Future researchers should continue to take sample sizes into consideration, setting aside non-significant correlations and treating them as potential counter-factuals as a step towards re-formulating theories. The population sizes in this study have been acceptable, but by including other lower and upper range universities, wider generalizations may be possible.

This thesis considered occupational stress as independent variable (IV) and organisational commitment as dependent variable (DV), but there is no study that has interchanged the IV and DV. Thus, it would be interesting to see if organisational commitment affects the occupational stress or not. G-GCT would suggest that it *does*. Hence, researcher recommends that future studies shall consider occupational stress as dependent variable and organisational commitment as independent variable, distinguishing perhaps between the relationship between the variables for each 'thought style'. Different rationalities are disturbed by different and distinctive troubles.

Future studies should design questionnaires which distinguish between specific physiological symptoms and home-based stresses. It is also important to employ methods that helps researchers in identifying whether respondents are able to *recognise* and therefore self-report physiological symptoms of interest to researchers of workplace stress. Researchers should ensure that participants have better understanding about the types of support and ask questions such as asking respondents to describe what emotional and moral support means to them in practice, with examples.

Future researchers shall consider a longitudinal panel research design to investigate the same variables of interest. This will provide an opportunity to measure variations in responses over time. This would be recommended in recognition of the cultural shifts that are always taking place to some degree, even without respondents being quite aware of them. Five-year intervals would probably suffice in this case. We should be open to the possibility that there are either variations or confirmations of the findings in different timeframes.

Future researchers might consider categorizing respondents based on their work contract. In this study, no distinction was made, but perhaps future researchers could categorize employees as "full-time/ part-time" and "permanent/ short-term contracts" and "salaried/ hourly paid". There is a possibility that there are variations in the responses of employees having different work statuses.

#### What practical suggestions?

We have some evidence that universities should introduce formal social support programmes. Informal social support exists and its effectiveness is high. Universities should foster even informal support and certainly do nothing to damage it. As the principle of "collegiality" may be a source of social support, this should be preserved. We think it likely that a formal, structured system should also improve the chances of dealing with stress-related issues successfully.

The interviews findings show that the majority of university personnel did not have the appropriate information about the role of nor need for the occupational therapist. This may explain reluctance to use occupational therapists. It is advised that there should be regular workshops to inform employees of the importance of attending counselling sessions with experts in stress-release. Occupational therapy can be practiced only when personnel are informed and educated about it.

Women reported higher acute (hyper) stress, while males reported higher chronic stress. Excess workload, a personal mishap at home, serious injury are commonly reported by females, as the sources of their acute type of stress. Men reported challenging relationships, financial difficulties, boredom, fatigue, which they identified as the source of their chronic stress. Universities should be aware of long working hours, workload and conventional (bureaucratic) structures as leading to depression, anxiety, high blood pressure, disturbed sleep and eating patterns, fatigue, mood swings.

Repetitive tasks, rigid processes, poor opportunities for experimentation and creativity increase stress and its adverse effects. While employees inhabiting Hierarchical reasoning may not welcome it, for the other thought styles stress may reduce if jobs are made more flexible; job-rotation introduced and over-loads re-distributed. Jobs should be made more exciting and enjoyable, which would be welcomed especially in as far as the Individualistic thought style prevails, so that employees' stress is reduced and commitment improves.

In the UK, organisational politics is clearly a stressor (we suspect especially for Egalitarianminded employees) and the management at universities should consider a way to ensure that lobbies are not created where specific individuals work closely against others. Instead, networking and teamwork should be promoted. The management should consider a policy of rotating personnel, especially administrative staff in the offices, from time-to-time, whereas the teaching staff should be given group tasks with other teachers, in order to collaborate in workshops and seminars, so that instead of lobbying, there is networking and teamwork.

Lastly, young employees reported higher stress and lower organisational commitment. There could be various reasons behind this, particularly their relatively lower levels of autonomy and authority (legitimate power). However, it is also likely that less experienced employees have yet to learn how to deal with occupational stressors. The literature suggests that stress management programmes are effective in dealing stress immediately. We suggest that universities should arrange stress management sessions for employees, especially young employees, to improve their organisational commitment and reduce occupational stress. As social support contributes to stress reduction universities should develop social support programmes which enable young employees to work in close collaboration with experienced personnel. Mentoring inexperienced staff would bring stress reduction and increased organisational commitment. Often, it is said that there is 'no substitute for experience' but means of enabling knowledge transfer from the experienced to the inexperienced should reduce employee turnover, stress and develop human capital.

#### **6.5 Research Limitations**

We recognise, fatalistically(!) that there will always be limitations within research. When a researcher prefers one option over another, there is always an opportunity cost because the alternative is sacrificed. Nevertheless, these limitations serve as a foundation for future researchers to consider and include in their future research. Exclusion of alternatives is not an

error as every research project needs to have boundaries drawn around it in order for the inquiry to be researchable rather than sprawling.

Any research design involves limitations. Perhaps, the use of a longitudinal design for measuring the same respondents' opinion in two different time lags or intervals might have been interesting, but it would have been beyond our available resources, especially time resources. Cross-sectional design was adequate for our research aim and objectives. This research was also comparative analysis and multi-dimensions and we could not recommend abandonment of these features, however, inclusion of job features, such as style of work, nature of work, temperament, experience, might have shed light on some interesting variations. Nonetheless, this study had the objectives of finding causes, consequences and predictors affecting the antecedents of the dimensions and, therefore, focused on those aspects. It would be very intriguing, however, to explore the research phenomenon through controlled variables.

Although small, the sample was drawn carefully enough to allow for generalizations. While only public universities were included there is a chance that the level of commitment and stress might be different for private institutions. It would have been interesting to compare the findings from public and private universities.

This study was self-funded and funding limits were mitigated through use of onlinequestionnaires which served the purposes of the research. Where possible, participants body language and facial expressions were noted, for example through SKYPE interviews. Expert panels were not used because of the difficulty in gathering selecting and gathering experts together and owing to constraints on the expert. The Delphi technique was not used though it could be interesting to record experts, on a single platform, sharing their expertise. Despite these limitations, obedience to ethical guidelines, methodological reviews and application of systematic procedures enabled the extraction of credible findings without compromising validity and reliability.

#### **6.6 Concluding Remarks**

In the light of the primary evidence, it is concluded that occupational stress (personal, organisational and environmental) affect men and women working as tutors and administrators in UK and Pakistani universities. The consequences of stress (behavioural, physical, emotional and cognitive) vary. The most frequent stressor is the "organisational stressor", while "emotional symptoms" are a common effect in both university systems. The effectiveness of the occupational therapist is non-significant, but personal strain, perceived job stress and

personal resources significantly affect the antecedents of organisational commitment: affective commitment, normative commitment, and continuance commitment. Nevertheless, social support and stress management are effective in reducing occupational stress and increasing organisational commitment.

## **BIBLIOGRAPHY**

ABS Gov. (2010). *Personal Stressors - 4159.0* - General Social Survey: Summary Results, Australia, 2010. Retrieved from: https://www.abs.gov.au/ausstats/abs@.nsf/Products/503EAA175B7D4BABCA25791A0082 C418?opendocument

ABS Gov. (2010). *Social and emotional wellbeing: Life stressors - Adults*, 4704.0 - The Health and Welfare of Australia's Aboriginal and Torres Strait Islander Peoples, Oct 2010, Retrieved from: https://www.abs.gov.au/AUSSTATS/abs@.nsf/lookup/4704.0Chapter430Oct+2010.

Ader, H. J., Mellenbergh, G. J., and Hand, D. J. (2008). *Advising on Research Methods: a Consultant's companion*. Huizen, Netherlands: Johannes Van Kessel Publishing.

Adler, J. E. (2002). Akratic Believing? *Philosophical Studies*, 110(1), 1–27. doi:10.1023/A:1019823330245.

Adolšek, D. M., and Štebe, J. (2004). Multinational Perspectives on Work Values and Commitment, *International Journal of Cross-Cultural Management*, 4(2), 181-209.

Afaneh, J. A. Khaireddin, M. A., Sanjuq, G. M., and Qaddoumi, J. B. (2014). Impact of cultural dimensions according to Hofstede model on organizational commitment of the middle management at Jordanian private universities, *European Journal of Business and Social Sciences*, 3(9), 129-146.

Agresti, A., and Finlay, B. (2008). *Statistical Options for the Social Sciences*, 4th edition. Upper Saddle River, NJ: Prentice Hall.

Ahmad, K. Z. and Bakar, R.A. (2003). The association between training and organizational commitment among white-collar workers in Malaysia, *International Journal of Training and Development*, 7(3), 166-185.

Ahmad, Z. A., and Yekta, Z. A. (2010). Relationship between perceived organizational support, leadership behavior, and job satisfaction: An empirical study in Iran, *Intangible Capital*, 6(2), 160-185.

Ahsan, N., Abdullah, Z., Fie, D. Y. G., and Alam, S. S. (2009). A Study of Job Stress on Job Satisfaction among University Staff in Malaysia: Empirical Study, *European Journal of Social Science*, 8(1), 121-131.

Akhtar, C. S., Aamir, A., Khurshid, M. A., Abro, M. M. Q., and Hussain, J. (2015). Total Rewards and Retention: Case Study of Higher Education Institutions in Pakistan, *Procedia* -*Social and Behavioral Sciences*, 210, 251-259.

Aksu, A. A. and Aktas, A. (2005). Job satisfaction of managers in tourism: Cases in the Antalya region of Turkey, *Managerial Auditing Journal*, 20(5), 479-488.

Aldrich, H. E., and Fiol, C. M. (1994). Fools rush in? The institutional context of industry creation, *Academy of Management Review*, 19, 645-670.

Alice, H. (2012). *General Adaption Syndrome*. Miss Orrin's Psychology Blog. Available at: <u>https://missorrinpsychology.wordpress.com/2012/09/07/general-adaptation-syndrome/</u>. Last accessed: 8<sup>th</sup> February 2017.

Allen, J. N. and Meyer, P. J. (1990). The measurement and antecedents of affective, continuance and normative commitment to the organization, *Journal of Occupational Psychology*, 63, 1-18.

Allen, N. J., and Meyer, J. P. (1996). Affective, continuance, and normative commitment to the organization: an examination of construct validity, *Journal of Vocational Behavior*, 49(3), 252-76.

Allen, M. W., Armstrong, D. J., Reid, M. F. and Riemenschneider, C. K. (2008). Factors impacting the perceived organizational support of IT employees, *Information and Management*, 45, 556-563.

Allingham, M. (2002). *Choice Theory: A Very Short Introduction*, UK: Oxford University Press.

Altman, D. G., and Bland, J. M. (1995). Statistics notes: the normal distribution, *British Medical Journal*, 310(6975), 298.

Alvi, A. K., and Abbasi, A. S. (2012). Impact of Organizational Justice on Employee Engagement in Banking Sector of Pakistan, *Middle-East Journal of Scientific Research*, 12(5), 643-649. Available at: <u>http://www.idosi.org/mejsr/mejsr12(5)12/10.pdf</u>.. Last accessed: 5th November 2016.

Andolšek, D. M., and Štebe, J. (2004). Multinational perspectives on work values and commitment, *International Journal of Cross-Cultural Management*, 4, 181-209.

Angle, H. L., and Perry, J. L. (1981). An Empirical Assessment of Organizational Commitment and Organizational Effectiveness, *Administrative Science Quarterly*, 26(1), 1-14.

Appell, G. N. (1978). *Ethical dilemmas in anthropological inquiry: a case book*. Waltham Mass, USA: Crossroads Press. xii, pp.292.

Aselage J. and Eisenberger, R. (2003). Perceived organizational support and psychological contracts: a theoretical integration, *Journal of Organizational Behaviour*, 24, 490-505.

Aten, K., and Howard-Grenville, J. (2012). Encouraging trade at the boundary of organizational culture and institutional theory, *Journal of Management Inquiry*, 21(1), 114-117. Available at: <u>http://dx.doi.org/10.1177/1056492611419803</u>. Last accessed: 21<sup>st</sup> February 2017.

Atieno, O. P. (2009). An Analysis of Strengths and Limitation of Qualitative and Quantitative Research Paradigms, *Problems of Education in the 21st Century*, 13, 13-18.

Atkinson, R., and Flint, J. (2004). *Encyclopaedia of Social Science Research Methods*. New York, USA: SAGE Publications Inc. pp. 1044–1045.

Attride-Stirling, J. (2001). Thematic Networks: An Analytic Tool for Qualitative Research, *Qualitative Research*, 1(3), 385–405.

Aube, C., Rousseau, V., and Morin, M. E. (2007). Perceived organizational support and organizational commitment: The moderating effect of locus of control and work autonomy, *Journal of Managerial Psychology*, 22(5), 479-495.

Babbie, E. R. (2010). The Practice of Social Research. 12th ed. Belmont, CA: Wadsworth.

Bajpai, N. (2010). Business Statistics, New Delhi, India: Pearson Education.

Baker, A. (2010). *Zalta*, N. Edward (ed.). "Simplicity". The Stanford Encyclopedia of Philosophy, California: Stanford University.

Baker, T. L. (1994). Doing Social research. 2nd Edition. New York, USA: McGraw-Hill Inc.

Banaraayake, T. (2012). *Understanding Research Philosophies*. Slideshare. Available at: <u>http://www.slideshare.net/thusharabandaranayake/understanding-research-philosophies</u>. Last accessed: 25<sup>th</sup> November 2017.

Barnes, J. A. (1984). Ethical and political compromises in social research, *Wisconsin Sociologist*, 21, 100–111.

Bartlett, C. A., and Ghoshal, S. (2000). *Transnational management: Text, cases, and readings in cross-border management*, (3rd ed.). Boston, USA: Irwin/McGraw Hill.

Bartlett, R. K. (2001). The relationship between training and organizational commitment: A study in the health care field, *Human Resource Development Quarterly*, 12(4), 335-352.

Bartlett, K. R., and Kang, D. S. (2004). Training in organizational commitment in response to industry and organizational change in New Zealand and the United States, *Human Resource Development International*, 7(4), 423-440.

Bartlett, L., and Vavrus, F. (2017). *Rethinking Case Study Research: A Comparative Approach*. New York, USA: Routledge.

Baskerville, R. F. (2018). A research note: The unfinished business of culture. *Accounting Organizations and Society*, 30, 389-391.

Bateman, T. and Strasser, S. (1984). A longitudinal analysis of the antecedents of organizational commitment, *Academy of Management Journal*, 21, 95.

Batool, S. S., and de Visser, R. O. (2016). Experiences of Infertility in British and Pakistani Women: A Cross-Cultural Qualitative Analysis, *Health Care for Women International*, 37(2), 180-196. DOI: 10.1080/07399332.2014.980890.

Batty, D., Russ, T. C., Stamatakis, E., and Kivimäki, M. (2017). Psychological distress in relation to cite specific cancer mortality: pooling of unpublished data from 16 prospective cohort studies, *British Medical Journal*, 356(108). Available at: <u>http://www.bmj.com/content/356/bmj.j108</u>. Last accessed: 12<sup>th</sup> March 2017.

Becker H.S. (1960). Notes on the concept of commitment, *American Journal of Sociology*, 66, 32-40.

Bennett, A. (2004). *Case study methods: Design use and comparative advantages. In Models, numbers, and cases: Methods for studying international relations*, eds. Detlef F Sprinz and Yael Wolinsky-Nahmias, 19–55. Ann Arbor, MI: University of Michigan Press.

Berger, A. A. (2016). *What objects mean: an introduction to material culture,* 2nd Editon, London: Routledge, Taylor and Francis Group.

Berkwits M., and Inui, T. S. (1998). Making use of qualitative research techniques, *Journal of General International Medical*, 13, 195–199.

Bhatti, W. A., Khan, M. N., Ahmad, A., Hussain, N., and Rehman, K. (2011). Sustaining Competitive Advantage through effective knowledge management. *African Journal of Business Management*, 5(8), 3297-3301.

Black, K. (2010) *Business Statistics: Contemporary Decision Making*. 6th Edition. USA: John Wiley and Sons.

Black, K. (2004). *Business Statistics for Contemporary Decision Making*. 4th Edition. Wiley Student Edition for India. India: Wiley-India.

Bobak, M., Pikhart, H., Hertzman, C., Rose, R., and Marmot, M. (1998). Socioeconomic factors, perceived control and self-reported health in Russia. A cross-sectional survey. *Social Science and Medicine*, 47(2), 269–279.

Boehman, R. (2006). *Affective, Continuance, and Normative Commitment among Student Affairs Professionals.* Unpublished Doctoral Dissertation, North Carolina State University, Raleigh, NC.

Bolon, D.S. (1993). Organizational Citizenship Behaviour Among Hospital Employees: A Multidimensional Analysis Involving Job Satisfaction and Organizational Commitment, *Hospital and Health Services Administration*, 42(2), 221-241.

Boyas, J., and Wind, L. H. (2009). Employment-based social capital, job stress and employee burnout: A public child welfare employee Structural Model, *Children and Youth Services Review Journal*, 32(3), 380-388.

Bozeman, D. P., and Perrewe, P. L. 2001. The effects of item content overlap on Organizational Commitment Questionnaire-turnover cognitions relationships, *Journal of Applied Psychology*, 86, 161–173.

Brace, I. (2008) *Questionnaire design: how to plan, structure and write survey material for effective market research*. London: Kogan Page. Available as an e-book via the Library catalogue: <u>http://prism.talis.com/derby-ac/</u>. Last accessed: 25<sup>th</sup> November 2017.

Bradley, E. H., Curry, L. A., Wbster, T. R., Mattera, J. A., Roumanis, S. A., Radford, M. J., McNamara, R. L., Barton, B. A., Berg, D. N., and Krumholz, H. M. (2006). Achieving rapid door-to-balloon times: How top hospitals improve complex clinical systems, *Circulation*, 113, 1079-1085.

Brannon, L., and Fiest, J. (1992). *Instructor's Manual for Health Psychology: An Introduction to Behavior and Health*, CA, USA: Wadsworth Publishing Company.

Bratianu, C. (2015). *Emotional Knowledge*. Chapter 3. In: Bratianu, C. (2015). Organizational Knowledge Dynamics: Managing Knowledge Creation, Acquisition, Sharing, and Transformation. Hershey: IGI Global. DOI: 10.4018/978-1-4666-8318-1.ch003

Brians, C. L., Willnat, L., Manheim, J., and Rick, R. (2010). *Empirical Political Analysis*, 8th Edition. Oxford, UK: Routledge.

Briner, R. B., Harris, C., and Daniels, K. (2004). How do work stress and coping work? Toward a fundamental theoretical reappraisal, *British Journal of Guidance and Counselling*, 32(2). 223-234.

Broadbent, D. E. (1981). Decision and Stress. Academic Press, New York, 13-39.

Brown, R. B, (2006). *Doing Your Dissertation in Business and Management: The Reality of Research and Writing*, Sage Publications.

Brown, Z. A., and Uehara, D. L. (2008). *Coping with teacher stress: A research synthesis for Pacific education*. Available at: <u>http://www.prel.org/products/</u>. Last accessed: 1<sup>st</sup>March 2017.

Brown, Z. A., and Uehara, D. L. (2008). *Coping with teacher stress: A research synthesis for Pacific education.* Available at: <u>http://www.prel.org/products/</u>. Last accessed: 16<sup>th</sup> April 2016.

Bryman, A. (2012). Social Research Methods. 4th Edition. Oxford, UK: Oxford University Press.

Buchanan, B.II. (1974). Building organizational commitment: The socialization of managers in work organizations, *Administrative Science Quarterly*, 19(4), 533-546.

Buchko, A. A., Weinzimmer, L. G., and Sergeyev, A. V. (1998). Effects of cultural context on the antecedents, correlates, and consequences of organizational commitment: A study of Russian workers, *Journal of Business Research*, 43, 109-116.

Bulatao, R. A., and Anderson, N. B. (2004). *Understanding Racial and Ethnic Differences in Health in Late Life, A Research Agenda*, Washington (DC): National Academies Press.

Burns, I. (2020). Canada ranked 2nd in 2020 Best Countries report. Available at: <a href="https://www.kelownanow.com/news/news/National\_News/Canada\_ranked\_2nd\_in\_2020\_Best\_Countries\_report/">https://www.kelownanow.com/news/news/National\_News/Canada\_ranked\_2nd\_in\_2020\_Best\_Countries\_report/</a>. Last accessed: 16<sup>th</sup> April 2019.

Buunk, B. P., de Jonge, J., Ybema, J. F., and de Wolff, C. J. (1991). *Psychosocial Aspects of Occupational Stress*. In P.J.D. Drenth, H. Thierry and C.J. de Wolff (Eds.), Handbook of Work and Organizational Psychology, UK: Routledge, 145-182.

Buzdar, M. A., Ali, A., and Tariq, R. U. H. (2016). Emotional intelligence as a determinant of readiness for online learning. *International Review of Research in Open and Distributed Learning*, 17(1). DOI:10.19173/irrodl.v17i1.2149.

Canipe, J. S. (2006). *Relationships among Trust, Organizational Commitment, Perceived Organizational Support, and Turnover Intentions*, Unpublished Doctoral Dissertation.

CAOT (2010). Occupational Therapy Solutions to Common Workplace Issues. A Manual to Enhance Workforce Management.Ottawa, CA: Canadian Association of Occupational Therapists. Available at: <u>https://www.caot.ca/pdfs/Insurance%20lobby/OT%20Solutions.pdf</u>. Last accessed: 22<sup>nd</sup> February 2017.

Carayon, P. (1993). Effect of electronic performance monitoring on job design and worker stress: Review of the literature and conceptual model, *Human Factors*, 35, 385-95.

Carroll. S. (2013). *Types of Research you can use for your Dissertation*. Available at: http://www.dissertation-statistics.com/research-designs.html. Last accessed: 22<sup>nd</sup> April 2018.

Chai, S. K. (1997). *Rational Choice and Culture: Clashing Perspectives or Complementary Modes of Analysis?* Chapter two. In: Richard J. Ellis and Michael Thompson (ed.), Culture Matters: Essays in Honor of Aaron Wildavsky, Boulder, Colo: Westview.

Chai, S. K., Lui, M. and Kim, M. S. (2009). Cultural Comparisons of Beliefs and Values: Applying the Grid-Group Approach to the World Values Survey, *Beliefs and Values*, 1(2), 193-208. Springer Publishing Company. DOI: 10.1891/1942-0617.1.2.193.

Chance, B. L. (1997). Experiences with Authentic Assessment Techniques in an Introductory Statistics Course, *Journal of Statistics Education* [Online], 5(3). Available at: www.amstat.org/publications/jse/v5n3/chance.html. Last accessed: 22<sup>nd</sup> April 2018.

Chang, K., and Lu, L. (2007). Characteristics of organizational culture, stressors and wellbeing: The case of Taiwanese organizations, *Journal of Managerial Psychology*, 22, 549-568.

Chaudhry, A. Q. (2012). The Relationship between Occupational Stress and Job Satisfaction: The Case of Pakistani Universities, *International Education Studies*, 5(3), 212-221.

Chen, Y. J. (2007). Relationship among service orientation, job satisfaction, and organizational commitment in the international tourist hotel industry, *Journal of American Academy of Business*, 11(2), 71-82.

Chen, Z. X., Aryee, S. and Lee, C. (2005). Test of a mediation model of perceived organizational support, *Journal of Vocational Behavior*, 66(3), 457-470.

Child, D. (1990). *The essentials of factor analysis*, 2nd edition. London: Cassel Educational Limited.

Chraif, M. and AniGei, M. (2011). The impact of economic crisis on occupational stress and counterproductive behavior in a food and beverage restaurant chain from Romania, 2nd World Conference on Psychology, Counselling and Guidance, *Procedia - Social and Behavioral Sciences*, 30, 2644-2650.

Chraif, M. and Stefan, C. (2010). A practical model for the development of public servants' competitiveness and professional performance, *Romanian Journal of Applied Experimental Psychology*, 1(1), 44-57.

Chraif, M. (2010). Counterproductive behavior at work place, Bucharest: Universitară.

Chraif, M. (2008). *Predicting counterproductive work behavior in fast-food organizations*, in the volume of the International Conference with international participation, Bucharest: Publisher House University.

Christmann, E. P., and Badgett, J. L. (2008). *Interpreting Assessment Data*. Arlington, USA: NTSA Press.

Cicei, C. C. (2012). Occupational stress and organizational commitment in Romanian public organizations, *Procedia - Social and Behavioral Sciences*. 33, 1077–1081.

CIPD Annual Report (2007). *Recruitment, retention and turnover*, Chartered Institute of Personnel and Development, 1-45. Available at: <u>http://www2.cipd.co.uk/NR/rdonlyres/746F1183-3941-4E6A-9EF6-</u> <u>135C29AE22C9/0/recruitretntsurv07.pdf</u>. Last accessed: Last accessed: 2<sup>nd</sup> May 2017.

Clanton, J. C. (2015). Teaching Socrates, Aristotle, and Augustine on Akrasia, *Religions*, 6, 419-433. DOI:10.3390/rel6020419.

Cleophas, T. J., Zwinderman, A. H., Cleophas, T. F., and Cleophas, E. F. (2000). *Statistics Applied to Clinical Trials*, Dordrecht, Netherlands: Springer.

Clont, J. G. (1992). *The concept of reliability as it pertains to data from qualitative studies*. Paper Presented at the annual meeting of the South West Educational Research Association. Houston, TX.

Cobb, G. (1992). *Teaching Statistics*.In Heeding the Call for Change: Suggestions for Curricular Action, ed. L. A. Steen, Washington, DC: Mathematical Association of America, 3-43.

Cohen, L., Manion, L., and Morrison, K. (2007). *Research methods in education*. 6th edition. London: Routledge.

Cohen, N., and Tamar, A. (2011). Field research in conflict environments: Methodological challenges and snowball sampling, *Journal of Peace Research*, 48(4), 423–435.

Colakglu, U., and Culha, O. (2010). The Effects of Perceived Organisational Support on Employees' Affective Outcomes: Evidence from hotel Industry, *Tourism and Hospitality Management*, 16(2), 125-150.

Colman, A. M. (2014). A Dictionary of Psychology. 3rd Edition. UK: Oxford University Press.

Cooper, C. L., Dewe, P. J., and O'Driscoll, M. P. (2001). Organizational Stress: A Review and Critique of Theory, Research, and Applications, *Gender, Work and Organization*, 10(1), 130-131.

Cooper, D.R. and Schindler, P.S. (2006). *Business Research Method*, 9th Edition. Boston: McGraw-Hill Irwin.

Costea, B., and Crump, N. J. (1999). Introducing organisational behaviour: issues in course design, *Education and Training*, 41(9). 403-415. DOI: 10.1108/00400919910305513.

Cox, T. (1987). Stress, coping and problem solving, Work and Stress, 1, 5-14.

Cox, T. and Griffiths, A. (1995). *The nature and measurement of work stress: theory and practice*. In J.R. Wilson and E.N. Corlett (Eds.), Evaluation of human work: a practical ergonomics methodology, London: Taylor and Francis.

Cox, T., Griffiths, A. and Rial-Gonzalez, E. (2000). *Research on Work-Related Stress*.Luxembourg: Office for Official Publications of the European Communities.

Cox, T., Houdmont, J., and Griffiths, A. (2006). Rail passenger crowding, stress, health and safety in Britain, *Transportation Research Part A: Policy and Practice*, *40*(3), 244-258.

Cox, T. and Mackay, C.J. (1981). *A Transactional approach to occupational stress*. In E.N. Corlett and J. Richardson (Eds.), Stress, Work Design and Productivity. Chichester: Wiley and Sons.

Coyle-Shapiro, J.A-M., and Kessler, I. (2000). Consequences of the psychological contract for the employment relationship: A large scale survey, *Journal of Management Studies*, 37, 903-930.

Crabtree, B., and Miller, W. eds. (1999). *Doing Qualitative Research*. 2nd ed. Newbury Park, California: SAGE.

Craig, G., Corden, A. and Thornton, P. (2001). A Code of Safety for Social Researchers, London: SRA.

Creswell, J. W. (2013). *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* 4th Edition. London, UK: SAGE.

Creswell, J. W. (2012). *Educational research: Planning, conducting, and evaluating quantitative and qualitative research.* Upper Saddle River, NJ: Prentice Hall.

Creswell, J. W. (2007). *Qualitative inquiry and research design: Choosing among five approaches*. (2nd ed.). Thousand Oaks, CA: Sage.

Creswell, J., (2003). *Research Design: Qualitative, Quantitative and Mixed Methods Approaches.* 2nd ed. Thousand Oaks, California: SAGE.

Creswell, J., Clark, P. V., Gutman, and Hanson, W. (2009). *Advanced mixed methods research designs*. In: Tashakkori, A., Teddlie, C. (eds.) Handbook of mixed methods in social and behavioral research, Thousand Oaks, CA: SAGE. 209-240.

Creswell, J. W., and Piano, C. V. (2007). *Designing and Conducting Mixed Methods Research*. Thousand Oaks, California: SAGE.

Crivelli, P. (2004). Aristotle on Truth, Cambridge: Cambridge University Press.

CSHS (2010). *Acute vs. chronic stress*. [Centre for Studies on Human Stress]. Available at: <u>http://www.humanstress.ca/stress/understand-your-stress/acute-vs-chronic-stress.html</u>. Last accessed: 2<sup>nd</sup>May 2017.

Culha, O. (2008). *A research on determination of the relationship between in-service training and organizational commitment*. Unpublished Master Thesis. Izmir: Dokuz Eylül University Institute of Social Sciences Department of Tourism Management.

Curran-Everett, D., and Benos, D. J. (2004). Guidelines for reporting statistics in journals published by the American Physiological Society, *American Journal of Physiology-Endocrinology and Metabolism*, 287, 189–191.

Currivan, D.B. (1999). The causal order of job satisfaction and organizational commitment in models of employee turnover, *Human Resource Management Review*, 9(4), 495-524.

Curry, L., Shield, R., and Wetle, T. eds (2006). *Improving Aging and Public Health Research: Qualitative and Mixed Methods*. Washington, DC: American Public Health Association and Gerontological Society of America.

Dacin, M. T. (1997). Isomorphism in context: The power and prescription of institutional norms, *Academy of Management Journal*, 40(1), 46-81.

Dakin, S., and Armstrong, J. S. (1989). Predicting job performance: A comparison of expert opinion and research findings, *International Journal of Forecasting*, 5, 187-194.

Dalgard, OS., and Lund Haheim, L. (1998). Psychosocial risk factors and mortality: A prospective study with special focus on social support, social participation, and locus of control in Norway. *Journal of Epidemiology and Community Health*, 52(8), 476–481.

Danish, R. Q., Draz, U., and Ali, H. Y. (2015). Impact of Organizational Climate on Job Satisfaction and Organizational Commitment in Education Sector of Pakistan, *American Journal of Mobile Systems, Applications and Services*, 1(2), 102-109.

Dantzker, M. L., and Hunter, R. D. (2012). *Research Methods for Criminology and Criminal Justice*, 3rd Edition, Massachusetts, USA: Jones and Bartlett Learning Publish.

David, M. (2015). *The Correspondence Theory of Truth, The Stanford Encyclopedia of Philosophy*, Fall Edition, Edward N. Zalta (ed.), Retrieved from: https://plato.stanford.edu/entries/truth-correspondence/.

De Bruin, II. (2010). *Chapter 3 - Validity and Reliability*. University of Pretoria. Available at: <u>https://repository.up.ac.za/bitstream/handle/2263/25218/02chapter3-4.pdf?sequence=3</u>. Last accessed: 21<sup>st</sup> February 2017.

de Gialdino, I. V. (2009). Ontological and Epistemological Foundations of Qualitative Research, *Forum: Qualitative Social Research*, 10(2).

De Jonge, J., and Schaufeli, W. B. (1998). Job characteristics and employee well-being: A test of Warr's Vitamin Model in health care workers using structural equation modelling. *Journal of Organizational Behavior*, 19(4), 387–407. https://doi.org/10.1002/(SICI)1099-1379(199807)19:4<387:AID-JOB851>3.0.CO;2-9

de Jonge, J., Bosma, H., Peter, R. and Siegrist, J. (2000). Job strain, effort-reward imbalance and employee well-being: a large-scale cross-sectional study, *Social Science and Medicine*, 50, 1317-1327.

Delbridge, R., and Edwards, T. (2013). Inhabiting institutions: Critical realist refinements to understanding institutional complexity and change, *Organization Studies*, 34(7), 927-947.

Demerouti, E., Bakker, A. B., Vardakou, I., and Kantas, A. (2001). *The convergent validity of two burnout measurement instruments in a Greet population*. NY: Cengage Publications.

De Munnik, D., Dupuis, D., and Illing, M. (2009). "Computing the Accuracy of Complex Non-Random Sampling Methods: The Case of the Bank of Canada's Business Outlook Survey." Working Paper/Document de travail 2009-10, CA: Bank of Canada.

Deng, Y., Chang, L., Yang, M., Huo, M., and Zhou, R. (2016). Gender Differences in Emotional Response: Inconsistency between Experience and Expressivity, *PloS one*, 11(6). DOI: 10.1371/journal.pone.0158666

Denzin, N. K., and Lincoln, Y. S. (2005). *Introduction: The discipline and practice of qualitative research*. In N. K. Denzin and Y. S. Lincoln (Eds.). The SAGE handbook of qualitative research. 3rd edition. Thousand Oaks, California: SAGE. pp. 1–32.

Denzin, N. K, and Lincoln, Y. S. (2000). *Handbook of Qualitative Research*. 2nd ed. Thousand Oaks, California: SAGE.

Dewe, P. (1991). Primary appraisal, secondary appraisal and coping: Their role in stressful work encounters, *Journal of Occupational Psychology banner*, 64(4), 331-351.

Dewe, P., and Trenberth, L. (2004). Work stress and coping: Drawing together research and practice, *British Journal of Guidance and Counselling*, 32(2), 143-156.

De Vaus, D. A. (1993). Surveys in Social Research. 3rd edition. London. UK: UCL Press.

Diener, E. and Crandall, R. (1978). *Ethics in social and behavioural research*. Chicago, USA: University of Chicago Press. pp. 266.

Douglas, M. (1992). Risk and Blame. London: Routledge.pp. 45-54.

Dua, J. K. (1994). Job stressors and their effects on physical health, emotional health and job satisfaction in a University, *Journal of Educational Administration*, 32(1), 59-78.

Duignan, B. (1989). *Utilitarianism philosophy*. Britanica. Available at: <u>https://www.britannica.com/topic/utilitarianism-philosophy</u>. Last accessed: 28<sup>th</sup> May 2020.

Duncan, R. B. (1972). Characteristics of organizational environments and perceived environmental uncertainty, *Administrative Science Quarterly*, 17(3), 313–327. https://doi.org/10.2307/2392145. EASHW (n.k). E-Facts 31. *Prevention of work-related stress in the education sector*. Available at: <u>https://osha.europa.eu/en/tools-and-publications/publications/e-facts/efact31</u>. Last accessed: 18<sup>th</sup> Nov 2016.

Easterby-Smith, M., Thorpe, R., and Jackson, P. R. (2015). *Management and Business Research*. 5th Ed. London: SAGE.

Eisenberger, R., Stinglhamber, F., Vandenberghe, C. Sucharski, I. L. and Rhoades, L. (2001). Perceived supervisor support: Contributions to perceived organizational support and employee retention, *Journal of Applied Psychology*, 87(3), 565-573.

Eisenberger, R. Cummings, J. Armeli, S. and Lynch, P. (1997). Perceived organizational support, discretionary treatment, and job satisfaction, *Journal of Applied Psychology*, 82(5), 800-825.

Eisenberger, R., Huntington, R., Hutchison, S. and Sowa, D. (1986). Perceived organizational support, *Journal of Applied Psychology*, 71(3), 1-5.

Ekundayo, J. A. (2014). Occupational Stress and Employees Productivity in the Workplace, *International Journal of Scientific Research in Education*, 7(2), 157-165.

Elliott, A. C., and Woodward, W. A. (2007). *Statistical analysis quick reference guidebook with SPSS examples*. 1st ed. London: SAGE.

Eriksson, P., and Kovalainen, A. (2008). *Qualitative Methods in Business Research*. Business and Economics. London: SAGE.

Eroglu, A. (2008). Faktör Analizi.In Kalaycı, S. (Ed.), SPSS Uygulamalı Çok Degiskenli statistik Teknikleri, Ankara: Asil Yayın Dagıtım. pp. 321-331.

Europe, A. (2013). *The Four main Approaches - Types of Research*. Available at: <u>http://www.alzheimer-europe.org/Research/Understanding-dementia-research/Types-of-research/The-four-main-approaches</u>. Last accessed: 21th December, 2016

Etzioni, A., and Gross, E. (1985). *Organizations in society*. Englewood Cliffs, NJ: Prentice-Hall.

Faizan, R., and Haque, A. U. (2015), Bullwhip effect phenomenon and mitigation in logistic firm's supply chain: Adaptive approach by Transborder Agency, Canada. *International Journal of Supply Chain Management*, 4(4), 43-51.

Fairbrother, K., and Warn, J. (2003). Workplace dimensions, stress and job satisfaction, *Journal of Managerial Psychology*, 18, 8-21.

Faizan, R., Haque, A. U., Cockrill, A., and Aston, J. (2019). Females at Strategic Level Affecting Logistics Firms' Competitiveness: Qualitative Comparative Analysis of Contrasting Gender in Pakistan and Canada, *Forum Scientiae Oeconomia*, 7(1), 57-71.

Faizan, R. and Zehra, N. (2016). Quality Work-Life as predictor to Organisational Commitment under contrasting Leadership Styles: I.T Responses from Pakistan's private software houses, *Global Journal of Management and Administration*, 16(6), 9-23.

Falkum, E., Olff, M., and Aasland, O. G. (1997). Revisiting the factor structure of the Ways of Coping Checklist: A three-dimensional view of the Problem-Focused Coping Scale. A study among Norwegian physicians, *Personality and Individual Differences*, 22, 257–267.

Farber B. A. (1983). *A critical perspective on burnout*. In: Stress and Burnout in the Human Services. New York: Pergamon, pp. 1–20.

Fields, D. (2002). *Taking the measure of work: a guide to validated scales for organizational research and diagnosis*. Thousand Oaks: California: SAGE.

Fimian, M. J., and Santoro, T. M. (1983). Sources and manifestations of occupational stress as reported by full-time special education teachers, *Exceptional Children*, 49(6), 540-530.

Finnis, J. (2017). Truth and Complexity: Notes on Music and Liberalism. *The American Journal of Jurisprudence*, 62(1), 119-114.

Fiske, A. P. (2002). Using individualism and collectivism to compare cultures—A critique of the validity and measurement of the constructs: Comment on Oyserman et al. (2002), *Psychological Bulletin*, 128, 78-88.

Fletcher, B. C. (1988). *The epidemiology of occupational stress*. In: Cooper CL and Payne R. (eds). Causes, Coping and Consequences of Stress at Work. Chichester: Wiley and Sons.pp.57-81.

Florio, G. A., Donnelly, J. P., and Zevon, M. A. (1998). The Structure of work-related stress and coping among oncology nurses in high-stress medical settings: a transactional analysis, *Journal of Occupational Health Psychology*, 3, 227-242.

Folkman, S., and Lazarus, R.S. (1980). An Analysis of coping in a Middle-Aged Community sample, *Journal of Health and Social Behaviour*, 21, 219-239.

Fraenkel, J. R., and Wallen, N. E. (2009). *How to Design and Evaluate Research in Education*, (7th ed). New York, USA: McGraw-hill.

Frankey, J. R., and Wallen, N. E. (2009). *How to design and evaluate research in education*, 7th Edition, New York, USA: McGraw-Hill.

Frederick J. S., Orife, J. N., and Anderson, F. P., (2010). Effects of Commitment to Corporate Vision on Employee Satisfaction with Their Organization: An Empirical Study in the United States, *International Journal of Management*, 27(3).

French, J. R. P., Jr, Caplan, R. D., and Harrison, R. V. (1982). *The mechanisms of job stress and strain*. London: John Wileyand Sons.

Frese, M., and Zapf, D. (1994). Action as the core of work psychology: A German approach. In H. C. Triandis, M. D. Dunnette, and L. M. Hough (Eds.), Handbook of industrial and organizational psychology (Second ed., Vol. 4, pp. 271-340). Palo Alto, CA: Consulting Psychologists Press.

Frith, B. (2017). *Stress affecting employee engagement*, HR Magazine, Available at: <u>http://www.hrmagazine.co.uk/article-details/stress-affecting-employee-engagement</u>. Last accessed: 12<sup>th</sup> March 2017.

Frith, B. (2016). *Younger employees more affected by workplace stress*, HR Magazine, Available at: <u>http://hrmagazine.co.uk/article-details/younger-employees-more-affected-by-workplace-stress</u>. Last accessed: 12<sup>th</sup> March 2017.

Fuller, J.B., Barnett, T., Hester, K. and Relyea, C. (2003). A social identity perspective on the relationship between perceived organizational support and organizational commitment, *The Journal of Social Psychology*, 143(6), 789-791.

Gaertner, S. (1999). Structural determinants of job satisfaction and organizational commitment in turnover models, *Human Resource Management Review*, 9(4), 479-493.

Gal, I. (ed.), (2000), *Adult Numeracy Development: Theory, Research, Practice*, Cresskill, NJ: Hampton Press.

Garg, D., and Rani, K. (2014). An Analytical Study of Occupational Stress in Education Sector, *International Journal of Research*, 1(9), 640-648.

Garfield, J. (1999). *Thinking about Statistical Reasoning, Thinking, and Literacy*. Paper presented at First Annual Roundtable on Statistical Thinking, Reasoning, and Literacy (STRL-1).

Garland, B.E., Mccarty, W. P., and Zhao, R. (2009). Job Satisfaction and organizational commitment in prisons, An Examination of Psychological Staff Teachers and Unit management staff, *Criminal Justice and Behavior*, 36(2), 163-183.

Gaskin, C. J. (2012). *Confirmatory Factor Analysis*. Available at: <u>http://statwiki.kolobkreations.com/wiki/Confirmatory\_Factor\_Analysis</u>. Last accessed: 12<sup>th</sup>March 2017.

Gaskin, C. J. (2012). *Structural Equation Modelling*, Gaskination's Statiki. Avaiable at: <u>http://statwiki.kolobkreations.com</u>. Last accessed: 12<sup>th</sup>March 2017.

Gaskin, C. J. and Happell, B. (2014). On exploratory factor analysis: a review of recent evidence, an assessment of current practice, and recommendations for future use, *International Journal of Nursing Studies*, *51*(3), 511-521.

Geert Hostede (2017). *Pakistan in comparison with United Kingdom*. Available at: <u>https://geert-hofstede.com/pakistan.html</u>. Last accessed: 12<sup>th</sup>March 2017.

Gelade, G. A., Dobson, P., and Gilbert, P. (2006). National Differences in Organizational Commitment Effect of Economy, Product of Personality, or Consequences of Culture?, *Journal of Cross-Cultural Psychology*, 37(5), 542-556.

Gelade, G. A., Dobson, P., and Auer, K. (2008). Individualism, Masculinity, and the Source of Organizational Commitment, *Journal of Cross-Cultural Psychology*, 39(5), 599-617.

Ghasemi, A., and Zahediasl, S. (2012). Normal Tests for Statistical Analysis: A Guide for Non-Statisticians, *International Journal of Endocrinology and Metabolism*, *10*(2), 486-489. Gianakos, I. (2002). Predictors of Coping with Work Stress: The Influences of sex, gender role, social desirability, and locus of control, Sex Roles, 46, 149-158.

Gingery, T. (2009). *Communicating the Use of Results and Respondent Data*. Available at: <u>http://survey.cvent.com/blog/research-questionnaire/page/31</u>.Last accessed: 11<sup>th</sup>February 2017.

Glaser, B.G. and Strauss, A.L. (1967). *The Discovery of Grounded Theory: Strategies for Qualitative Research*. Chicago, USA: Aldine Publication Company.

Glazer, S., and Kruse, B. (2008). The Role of Organizational Commitment in Occupational Stress Models, *International Journal of Stress Management*, 15, 329–344.

Gliner, J. A., and Morgan, G. A. (2000). *Research Methods in Applied Settings: An integrated Approach to Design and Analysis*. London, UK: Lawrence Erlbaum Associates.

Glisson, C., and James, L. R. (2002). The cross-level effects of culture and climate in human service teams, *Journal of Organizational Behavior*, 23(6), 767–794. DOI:10.1002/job.162.

Gok, O. A., Akgunduz, Y., and Alkan, C. (2017). The Effects of Job Stress and Perceived Organizational Support on Turnover Intentions of Hotel Employees, *Journal of Tourismology*, *3*(2), 23-32.

Gokul. A (2012). The study on work engagement, perceived organizational support and affective commitment among employees of a petrochemical industry. Unpublished MBA project dissertation, University of Madras, India

Golafshani, N. (2003). Understanding Reliability and Validity in Qualitative Research, *The Qualitative Report*, 8(4), 597-607.

Goodrick, D. (2014). *Comparative Case Studies. Methodological Briefs: Impact Evaluation 9,* Florence, Italy: UNICEF Office of Research.

GoP (2015). Highlights - Pakistan Economic Survey 2014-15. Economic Adviser's Wing, Finance Division, Government of Pakistan, Islamabad. Available at: http://www.finance.gov.pk/survey/chapters\_15/Highlights.pdf.Last accessed: 17<sup>th</sup>February 2017. Greenan N., and Seghir, M. (2017). *Measuring vulnerability to adverse working conditions: evidence from European countries*, Working paper, M21.14, Leuven, PF7 InGRID project.

Greenberg, J. (2005). *Managing Behaviour in Organizations*. 4th ed., EnglewoodCliffs, NJ: Prentice-Hall.

Greenwood, R., and Hinings, C. R. (1996). Understanding radical organizational change: Bringing together the old and the new institutionalism, *Academy of Management Review*, 21(4), 1022-1054.

Greenwood, R., Suddaby, R., and Hinings, C. R. (2002). Theorizing change: The role of professional associations in the transformation of institutionalized fields, *Academy of Management Journal*, 45(1), 58-80.

Griffiths, A. (1998). *The psychosocial work environment*. In R. C. McCaig and M. J. Harrington (Eds.) The changing nature of occupational health, 213-232.

Griffiths, P. E. (2010). Emotion on Dover Beach: Feeling and Value in the Philosophy of Robert Solomon, *Emotion Review*, 2(22), 22-28. DOI: 10.1177/1754073909345548.

Griffiths, R. W., Hom, P. W., and Gaertner, S. (2000). A meta-analysis of antecedents and correlates of employee turnover: Update, moderator tests, and research implications for the next millennium, *Journal of Management*, 26, 463–488.

Grove, J. (2016). *THE University Workplace Survey 2106: Results and Analysis*, [Times Higher Education]. Available at: <u>https://www.timeshighereducation.com/features/university-workplace-survey-2016-results-and-analysis</u> Last accessed: 21th October, 2017.

Gu, Z. and Siu, R.C.S. (2009), Drivers of job satisfaction as related to work performance in Macao casino hotels: An investigation based on employee survey, *International Journal of Contemporary Hospitality Management*, 21(5), 561-578.

Guiso, L., Herrera, H., and Morelli, M. (2016). Cultural differences and institutional integration. *Journal of International Economics*, 99, 97–113.

Gustafsson, J. (2017). Single case studies vs. multiple case studies: A comparative study, Academy of Business, Engineering and Science, Halmstad University, Halmstad, Sweden, 12/1.

Guillemin, M., and Gillan, L. (2004). Ethics, Reflexivity, and "Ethically Important Moments" in Research. *Qualitative Inquiry*, 10(2), 261-280.

Gunlu, E., Aksaraylı, M., and Perçin, N.S. (2000). Job satisfaction and organizational commitment of hotel managers in Turkey, *International Journal of Contemporary Hospitality Management*, 22(5), 693-717.

Gunlu, E., Aksaraylı, M. and Perçin, N.S. (2010). Job satisfaction and organizational commitment of hotel managers in Turkey, *International Journal of Contemporary Hospitality Management*, 22(5), 693-717.

GWI (2016). *Global Wellness Institute Releases Report and Survey on 'The Future of Wellness at Work'*, Available at: <u>https://globalwellnessinstitute.org/press-room/press-releases/global-wellness-institute-releases-report-and-survey-on-the-future-of-wellness-at-work/</u>. Last accessed: 21th October, 2016

Hackman, J. R., and Oldham, G. R. (1980). Work Redesign, Reading, MA: Addison-Wesley.

Hair, J. F., Babin, B., Money, A. H. and Samouel, P. (2007), *Research Methods for Business*, New York, USA: John Wiley and Sons.

Hair, J. F., Black, W. C., Babin, B. J., and Anderson, R. E. (2010). *Multivariate data analysis: A global perspective*. Upper Saddle River, New Jersey: Pearson Education.

Halepota, J. A., and Irani, Z. (2010). *The Impact of Organisational Antecedents on Employee Job Satisfaction. An empirical Evaluation of Public Sector Employees in Pakistan*. European, Mediterranean and Middle Eastern Conference on Information Systems 2010 (EMCIS2010). Available at: <u>http://202.154.59.182/ejournal/files/C103.pdf</u>.Last accessed: 18th November, 2016.

Haq, A. U. M. (2013). Human Resource Development in Pakistan: Evolution, trends and challenges, *Human Resource Development International*, 18(1), 97-104.

Haque, M. (2007). *Sampling Methods in Social Research*. Available at: http://www.grmgrlaranya.com/Journals/SAMPLING%20METHODS%20IN%20SOCIAL%2 <u>ORESEARCH.pdf</u>. Last accessed: 18th November, 2016. Haque, A. U., and Aston, J. (2016). A Relationship between Occupational Stress and Organizational Commitment of I.T Sector's Employees in Contrasting Economies, *Polish Journal of Management Studies*, 14(1), 95-105.

Haque, A. U., Aston, J., and Kozlovski, E. (2018). The Impact of Stressors on Organizational Commitment of Managerial and Non-Managerial Personnel in Contrasting Economies, *International Journal Business*, 23(2), 166-182.

Haque, A. U., Aston, J., and Kozlovski, E. (2016). Do causes and consequences of stress affect genders differently at operational level? Comparison of the IT sectors in the UK and Pakistan, *International Journal of Applied Business and Management Studies*, 1(1), 1-7.

Haque, A. U., Faizan, R., and Cockrill, A. (2017). The relationship between female representation at strategic level and firm's competitiveness: evidences from cargo logistic firms of Pakistan and Canada, *Polish Journal of Management Studies*, *15*(2), 69-81.

Haque, A. U., Faizan, R., Zehra, N., Baloch, A., Nadda, V., and Riaz, F. (2015). Leading Leadership Style to Motivate Cultural-Oriented Female Employees in the Developing Country: I.T Responses from Pakistan, *International Journal of Academic Research in Business and Social Sciences*, 5(9), 280-302.

Haque A. U., and Oino, I. (2017) Sustaining Human Capital by Reducing Stress through Social Support Programme in Contrasting economies. Accepted in Conference Proceedings at 4<sup>th</sup> *European Conference of Behavioural Sciences and Psychology*, Brighton, UK.

Haque, A.U., and Yamoah, F. (2014). Gender Employment Longevity: I.T Staff Response to Organizational Support in Pakistan, *International Journal of Academic Research in Business and Social Sciences*, 4(12), 324-347.

Hart, P.M. and Cooper, C. (2001). Occupational Stress: Toward a More Integrated Framework, Handbook of Industrial, *Work and Organizational Psychology*, 2, 93-114.

Hassan, S., Hassan, M. U., and Shoaib. M. (2014). Measuring the Impact of Perceived Organization Support, Psychological Empowerment and Rewards on Employees' Satisfaction: Testing the Mediating Impact of Employee Engagement. *World Applied Sciences Journal*, 30(5), 652-660. Available at: <u>http://www.idosi.org/wasj/wasj30(5)14/20.pdf</u>. Last accessed: 30<sup>th</sup> October, 2016.

Hassan, M. U., Bano. T., Shaukat, S., and Nawaz, M. S. (2013). Antecedents of Organizational Commitment: A Case of Banking Sector of Pakistan. *World Applied Sciences Journal*, 24(12), 1621-1628. Available at: <u>http://www.idosi.org/wasj/wasj24(12)13/11.pdf</u>. Last accessed: 13<sup>th</sup> October, 2016.

Hatch, M. J., and Cunliffe, A. L. (2006). *Organization Theory*. 2nd ed, Oxford University Press, Oxford.

Hazer, J. T., and Williams, L. J. (1986). Antecedents and consequences of satisfaction and commitment in turnover models: a re-analysis using talent variable structural equation methods, *Journal of Applied Psychology*, 72(1), 215-235.

HCEC (2017). Recruitment and retention of teachers, Fifth Report of Session 2016–17.

Healy, C.M., and McKay, M. F. (2000). Nursing stress: The effects of coping strategies and job satisfaction in a sample of Australian, *Journal of Advanced Nursing*, 31, 681-688.

Healy, M., and Perry, C. (2000). Comprehensive criteria to judge validity and reliability of qualitative research within the realism paradigm, *Qualitative Market Research*, 3(3), 118-126.

Heckathorn, D. D. (1997). "Respondent-Driven Sampling: A New Approach to Hidden Populations" (PDF). Social Problems.

Hemdi, M. A. (2009). Investigating Hotel Employees' Organisational Commitment: The Influence of Human Resource Management Practices and Perceived Organizational Support, *Journal of Tourism, Hospitality and Culinary Arts*, 1(3), 1-20.

Henley, J., Kirchgaessner, S., and Oltermann, P. (2016). *Brexit fears may see 15% of UK university staff leave, group warns.* [The Guardian]. Available at: <u>https://www.theguardian.com/education/2016/sep/25/brexit-may-force-15-of-staff-at-uk-universities-to-leave-warns-group.</u> Last accessed: 15<sup>th</sup> February 2017.

Heracleous, L., and Barrett, M. (2001). Organizational change as discourse: Communicative actions and deep structures in the context of information technology implementation, *Academy of Management Journal*, 44(4), 697-713. Available at: <u>http://dx.doi.org/10.2307/3069414</u>. Last accessed: 15<sup>th</sup> February 2017.

HEFCE (2015). HEFCE allocates £3.97 billion to universities and colleges in England for2015-16,Availableat:

http://www.hefce.ac.uk/news/newsarchive/2015/Name,103785,en.html. Last accessed: Last accessed: 15<sup>th</sup> February 2017.

Herskovits, M. J. (1948). *Man and his Works: The Science of Cultural Anthropology*. New York: Knopf.

HEWS (2015). *Higher Education Workforce Survey 2015, Universities and Colleges Employers Association (UCEA)*, Woburn House, London: UK. Available at: <u>file:///C:/Users/Adnan/Downloads/higher education workforce survey 2015.pdf</u>. Last accessed: 15<sup>th</sup> February 2017.

Hinton, P. R., McMurray, I., and Brownlow, C. (2014). *SPSS Explained*. 2nd Edition, New York: Routledge.

Hochschild, A. R. (1983). *The Managed Heart: Commercialization of Human Feeling*. University of California Press, Berkeley.

Hofstede, G. (2001). Cultures consequences: *Comparing values, behaviours, institutions and organizations across nations*, (2nd ed.). Thousand Oaks, CA: Sage.

Hoffman, R., Minkin, V. I., and Carpenter, B. K. (1997). Ockham's Razor and Chemistry. *International Journal for Philosophy of Chemistry*, 3, 3–28.

Hogue, R. J. (2011). *A design research approach to mobile learning*. 10th World Conference on Mobile and Contextual Learning. Beijing, China.

Hogue, R. J. (2011). Axiology - What do you value in Research? Available at: <u>https://rjh.goingeast.ca/2011/11/17/axiology-what-do-you-value-in-research/</u> Last accessed: 15<sup>th</sup> February 2017.

Hood, C. (2016). *The art of the state: Culture, rhetoric, and public management*. 4th Edition, Oxford: Clarendon Press.

House, J. S. (1981). Work Stress and Social Support. Reading, Mass: Addison-Wesley.

HSE (2007). Managing the risk factors of work-related stress in Home Office headquarters and the Border and Immigration Agency. Available at: http://www.homeoffice.gov.uk/hons/white-hon/hon041-2007.pdf?view=Binary. Last accessed: 25<sup>th</sup> February 2017. HSE (2007). *HSE Management standards indicator tool*. Available at: <u>http://www.hse.gov.uk/stress/standards/pdfs/indicatortool.pdf</u>. Last accessed: 28<sup>th</sup> February 2017.

Huang, L. H. (2000), "*The Perceived Leadership Behaviour and Organizational Commitment at CPA Firms*", DBA, Nova Southeastern University, Publication Number: AAT 9954698.

Hulbert, D. F. (1991). The role of assertiveness in female sexuality: A comparative study between sexually assertive and sexually non-assertive women, *Journal of Sex and Marital Therapy*, 17, 183-190.

Hunt, J., and Morgan, P. (1994). Organizational Commitment: One of Many Commitments or Key Mediating Construct, *The Academy of Management Journal*, 37(6), 1568-1587.

Hurley, K. (2019). *Building Coping Skills in Children with Anxiety*. Retrieved from: https://www.psycom.net/kids-coping-skills-anxiety.

Huxley, T.H. (1889). *Agnosticism: a rejoinder*. In Collected Essays vol 5 Science and Christian tradition. Macmillan, London.

Huy, Q. N. (2001). Time, temporal capability, and planned change, *Academy of Management Review*, 26(4), 601-623. Available at: <u>http://dx.doi.org/10.2307/3560244</u>. Last accessed: 15<sup>th</sup>February 2017.

Inui, T. S. (1996). The Virtue of qualitative and quantitative research, *Annual International Medicine*, 125, P. 770-7701.

Isaksen, S. G., and Ekvall, G. (2007). *Assessing the context for change: A technical manual for the Situational Outlook Questionnaire*. Orchard Park, NY: The Creative Problem-Solving Group.

Islam, T., Khan, S. R., Alia, G., Ahmed, I., and Bowrad, Z. A. (2014) *Turnover Intentions: The Influence of Perceived Organizational Support and Organizational Commitment*. 103, 1238– 1242.

Ivancevich, J. M., and Matteson, M. T. (2002). *Organizational Behavior and Management*. 6th Ed. New York. McGraw-Hill Companies. Pp. 20-75.

Jackson, D.W., and Sirianni N.J. (2009). Building the bottom line by developing the frontline: Career development for service employees, *Business Horizons*, 52, 279-287.

Jackson, L., and Rothmann, S. (2006). Occupational Stress, Organisational Commitment, and ill-health of Educators in the North West Province, *South African Journal of Education*, 26(1), 75-95.

Jamal. S. (2013). *Statistics Problems and Practice Edition 2013 for B.Com*. Ahmed Academy. PAK: Karachi.

Jamal, M. (1990). Relationship of job stress and Type-A behavior to employees" job satisfaction, organizational commitment, psychosomatic health problems, and turnover motivation, *Human Relations*, 43, 727-38.

Janis, N. A. (1989). Organizational commitment, career factors and career/life stage, *Journal* of Organizational Behavior, 10, 247-266.

Jick, T. (1967). Mixing qualitative and quantitative methods: triangulation in action, *Administrative Science Quarterly*, 602–610.

Johnson, J.V., Hall, E.M. (1988). Job strain, workplace social support and cardiovascular disease: a cross-sectional study of a random sample of Swedish working population, *American Journal of Public Health*, 78, 1336-1342.

Johnston, B. (2007). *Methodological Review: Mapping the Literature in Relation to the Challenges for the Non-participation Project*. Working Paper 4. NPinHE Project.

Jones, A. P., and James, L. R. (1979). Psychological Climate: Dimensions and Relationships of Individual and Aggregate Work Environment Perceptions, *Organization Behavior and Human Performance*, 23, 201-50.

Jöreskog, K. G. (2001). *Analysis of Ordinal Variables* 2. Available at: <u>http://www.ssicentral.com/lisrel/ord2.pdf</u>. Last accessed: 15<sup>th</sup>April, 2018.

Jovanovic, J., Lazaridis, K., and Stefanovic. V. (2006). Theoretical Approaches to Problem of Occupational Stress, *ACTA FAC MED NAISS*. 23(3), 163-169. Available at: <u>http://publisher.medfak.ni.ac.rs/AFMN/2006/3-</u> broj/THEORETICAL%20APPROACHES%20TO%20PROBLEM%20OF%20OCCUPATIO

NAL%20STRESS.pdf. Last accessed: 8<sup>th</sup>February 2017.

Judeh, M. (2014). *Mediating Effects of Organisational commitment on the relationship between perceived organisational support and job satisfaction*. Presented in Business-Related-Scientific-Research Conference Press.

Jupp, V. (2006). *The Sage dictionary of social research methods*. London: Sage. Available as an e-book via the Library catalogue: <u>http://prism.talis.com/derby-ac/</u>. Last accessed: 8<sup>th</sup>February 2017.

Kanter, R. M. (1968). Commitment and social organizations: A study of commitment mechanisms in Utopian communities, *American Sociological Review*, 33(4), 499-517.

Karasek, R. (1979). Job demands, job decision latitude and mental strain: Implications for job redesign, *Administrative Science Quarterly*, 24, 285-306.

Karasek, R. and Theorell, T. (1990). *Healthy work: Stress, productivity and the reconstruction of working life*, New York: Basic Books.

Karatepe, M.O. and Uludag, O. (2007). Conflict, exhaustion, and motivation: A study of frontline employees in Northern Cyprus hotels, *International Journal of Hospitality Management*, 26(3), 645-665.

Karimimalayer, A. A. M., and Anuar, M. K. (2012). Structural equation modeling VS multiple regression, *IRACST – Engineering Science and Technology: An International Journal (ESTIJ)*, Vol. 2(2), 326-329.

Karrasch, R. (2003). Antecedents and Consequences of Organizational Commitment, *Military Psychology*, 15(3), 225-236.

Kasi, P. (2009). *Research: What, Why and How? A Treatise from Researchers to Researchers,* 1st Edition. Bloomington: AuthorHouse.

Kelly, U., McNicoll, I., and White, J. (2011). *The Impact of Universities on the UK Economy*. Available at: <u>http://www.universitiesuk.ac.uk/policy-and-analysis/reports/Documents/2014/the-impact-of-universities-on-the-uk-economy.pdf</u>. Last accessed: 17<sup>th</sup>November 2016.

Kendra, C. (2015). *What is a Longitudinal Study?* Available at: <u>https://www.verywell.com/what-is-longitudinal-research-2795335</u>. Last accessed: 27<sup>th</sup>November 2017.

Keshavarz, M., and Mohammadi, R. (2011). Occupational stress and Organizational performance, Case study: Iran. Procedia - Social and Behavioral Sciences. *2nd World Conference on Psychology, Counselling and Guidance*, 30(1), 390-394.

Khan, I., Nawaz, A., and Khan, M. S. (2013). Determining the Organizational Commitment of Academicians in Public Sector Universities of Developing Countries like Pakistan, *International Journal of Academic Research in Accounting, Finance, and Management Sciences*, 3(1), 280-289.

Khan, S., and Jan, F. (2015). Organization Commitment and Job Satisfaction among Hospital Nurses. A Survey of District Hospitals of Dera Ismail Khan, *Global Journal of Management and Business Research*, 15, 16-18.

Khatibi, A., Asadi, H., and Hamidi, M. (2009). The Relationship Between Job Stress and Organizational Commitment in National Olympic and Paralympic Academy, *World Journal of Sport Sciences*, 2(4), 272-278.

Kiliçoglu, A. (2018). Qualitative Research for Educational Science Researchers: A Review of An Introduction to Qualitative Research. *The Qualitative Report*, 23(4), 949-951.

Kline, R. B. (1998). *Principles and Practice of Structural Equation Modeling*. New York: The Guilford Press.

Kompier, M. (2003). *Job Design and Well-being*. In M. Schabracq, J. Winnubst and C.L. Cooper, (Eds.), Handbook of Work and Health Psychology, 429-454.

Korte, R., and Mercurio, Z. A. (2017). Pragmatism and Human Resource Development: Practical Foundations for Research, Theory, and Practice. *Human Resource Development Review*, 16(1), 60–84. https://doi.org/10.1177/1534484317691707.

Kralj A. L., and Solnet, D. J. (2011). *The influence of perceived organizational support on engagement: a cross-generational investigation in the hospitality industry*. 2011 ICHRIE Conference. Available at: <u>http://scholarworks.umass.edu/cgi/viewcontent.cgi?article=1811andcontext=refereed</u>. Last accessed: 19<sup>th</sup> October, 2016.

Kuhn, T. (1962). The structure of scientific revolution. Chicago: University of Chicago Press.

Kumasey, S. A., Delle, E. and Ofei, B. S. (2014) Occupational Stress and Organisational Commitment: Does Sex and Managerial Status Matter? *International Journal of Business and Social Research (IJBSR)*, 4, 173-182.

Kumar, R. (2009). *Research Methodology: A Step-by-Step Guide for Beginners*. SAGE Publications, 330-332.

Kundaragi, P. B., and Kadakol, A. M. (2015). Employee Work Stress: A Literature Review, *International Journal of Humanities and Social Science Research*, 1(1), 4-7.

Künne, W. (2003). Conceptions of Truth, 1st Edition, Oxford: Clarendon Press.

Lacey, J. I. (1967). *Somatic response patterning and stress: some revisions of activation theory*. In: Appley M. H. and Trumbull R. (eds). Psychological Stress. Appleton- CenturyCrofts, New York, 5-15.

LaMastro, V. (2008), Commitment and perceived organizational support, *National Forum*, 19(1), 1-3.

Lambert, E. and Hogan, N. (2009). The Importance of Job Satisfaction and Organizational Commitment in Shaping Turnover Intent A Test of a Causal Model, *Criminal Justice Review*, (34)1, 96-118.

LaRocco, J. M., House, J. S., and French, J. R. P (1980). Social Support, Occupational Stress, and Health, *Journal of Health and Social Behavior*, 21(3), 202-218.

Lam, T. and Zhang, H.Q. (2003). Job satisfaction and organizational commitment in the Hong Kong fast food industry, *International Journal of Contemporary Hospitality Management*, 15(4), 214-220.

Lawrence, T. B., Winn, M. I., and Jennings, P. D. (2001). The temporal dynamics of institutionalization, *Academy of Management Review*, 26(4), 624-644.

Lazarus, R.S. (1991). Psychological Stress in the Workplace. In P.L. Perrewe (Ed.). Handbook on job stress, *Journal of Social Behavior and Personality*, 6, 1-13.

Lazarus, R. S. (1966). *Psychological Stress and the Coping Process*. New York, Toronto, London: McGraw-Hill Book Co.

Lazarus, R.S. and Folkman, S. (1984). Stress, appraisal, and coping. New York: Springer.

Leblanc, D. C. (2004). *Statistics: Concepts and Applications for Science*, volume 2, Jones and Bartlett Publisher, Sudbury: UK.

Lee, J.A., (2007). *Organizational justice: A mediated model from individual well-being and social exchange theory perspectives,* A dissertation for the degree of Doctor of Philosophy, TOURO University International.

Lee, R. (1995). *Dangerous Fieldwork, Qualitative Research Methods Series*, Vol. 34, London: Sage Publications.

Lee, R. M. (2000). *Unobtrusive Methods in Social Research*, Open University Press, Buckingham: UK.

Lee-Treweek, G., and Linkogle, S. (2000). *Danger in the Field: Risk and ethics in social research*, London and New York: Routledge.

Leighton, S. (1982). 'Aristotle and the Emotions', Phronesis, 27, 144–74.

Levi, L. (Ed). (1972). Stress and distress in response to psychosocial stimuli. New York: McGraw-Hill.

Lewin, K. (1951). *Field theory in social science; selected theoretical papers*. New York: Harper and Row.

Lincoln, Y. S., and Guba, E. G. (1985). *Naturalistic inquiry*. Beverly Hills, CA: Sage.

Lio, K. (1995). Professional orientation and organizational commitment among public employees: an empirical study of detention workers, *Journal of Public Administration Research and Theory*, 5, 240-241.

Lipscomb, M. (2011). Critical realism and realist pragmatism in mixed methods: Problematics of event identity and abductive inference (evolving paradigms in mixed methods research) - Paper kindly presented on Dr Lipscomb's behalf. In: American Educational Research Association Annual Meeting, 2011, New Orleans, Louisiana, USA. Available from: <u>http://eprints.uwe.ac.uk/14188</u>. Last accessed: 22<sup>nd</sup> November 2017.

LoBiondo-Wood, G., and Haber, J. (2014). *Nursing Research - E-Book: Methods and Critical Appraisal for Evidence-Based Practices*, 8th Edition, Elsevier, UK.

Locke, E. A. (1977). *The nature and causes of job satisfaction*, In Dunnette, M.D. (Ed.), Handbook of Industrial and Organizational Psychology, McGraw-Hill, New York, pp. 1297-1349.

Lockhart, C. (2001). Using grid-group theory to explain distinctive Japanese political institutions. *East Asia*, 19, 51–83.

Lok, P. and Crawford, J. (2001). Antecedents of organizational commitment and the mediating role of job satisfaction, *Journal of Managerial Psychology*, 16(8), 594-613.

Llorens, S., Bakker, A.B., Schaufeli, W.B., and Salanova, M. (2006). Testing the robustness of the job demands-resources model, *International Journal of Stress Management*, 13, 378-391.

Lucas, S. R. (2014a). Beyond the Existence Proof: Ontological Conditions, Epistemological Implications, and In-Depth Interview Research, *Quality and Quantity*, 48, 387-408. doi:10.1007/s11135-012-9775-3.

Lucas, S R. (2014b). An Inconvenient Dataset: Bias and Inappropriate Inference in the Multilevel Model, *Quality and Quantity*, 48, 1619-1649. doi:10.1007/s11135-013-9865-x.

Luton, L. S. (2010). *Qualitative Research Approaches for public Administration*, M. E. Sharpe, New York: USA.

Mack, L. (2010). The Philosophical Underpinnings of Educational Research. *Polyglossia*, 19, 1-10.

Mackenzie, N., and Knipe, S. (2006). Research dilemmas: Paradigms, methods and methodology, *Issues in Educational Research*, 16(2), 193-205.

Madi M., and Jarad, I. S. (2012). Employees' Perception and Organizational Commitment: A Study on the Banking Sector in Gaza, Palestine, *International Journal of Business and Social Science*, 3(16), [Special Issue – August 2012]. Available at: <u>http://ijbssnet.com/journals/Vol\_3\_No\_16\_Special\_Issue\_August\_2012/32.pdf</u>. 22<sup>nd</sup> February2017.

Makanjee C. R., Hartzer Y. F., and Uys I. L. (2006). The effect of perceived organizational support on organizational commitment of diagnostic imaging radiographers, *Radiography*, 12(2), 118-126.

Mäkikangas, A., and Kinnunen, U. (2003). Psychosocial work stressors and well-being: Selfesteem and optimism as moderators in a one-year longitudinal sample, *Personality and Individual Differences*, 35(3), 537-557.

Maleki, A., and Hendriks, F. (2015). The relation between cultural values and models of democracy: A cross-national study. *Democratization*, 22(6), 981-1010.

Malik, M. E., Dr. Nawab, S., Naeem, B., and Danish, R. Q. (2010). Job Satisfaction and Organizational Commitment of University Teachers in Public Sector of Pakistan, International Journal of **Business** and Management, 5(6), June 2010. Available at: 22<sup>nd</sup> http://www.ccsenet.org/journal/index.php/ijbm/article/viewFile/5204/4901. February 2017.

Mallows, C. (1998). 1997 Fisher Memorial Lecture: The Zeroth Problem, *The American Statistician*, 52, 1-9.

Malterud, K. (2001). The art and science of clinical knowledge: evidence beyond measures and numbers, *Lancet*, 358: 397–400.

Mamadouh, V. (1999). Grid-Group Cultural theory: An Introduction. *GeoJournal*, 47, 395-409.

Marczyk, G. R., DeMatteo, D. and Festinger, D. (2005) *Essentials of research design and methodology*. Hoboken: Wiley. Available as an e-book via the Library catalogue: <u>http://prism.talis.com/derby-ac/</u>. Last accessed: 14<sup>th</sup> January 2018.

Mark, G. and Smith, A. P. (2011). Occupational stress, job characteristics, coping, and the mental health of nurses, *British Journal of Health Psychology*, 17(3), 505-521.

Mark, G. M., and Smith, A. P. (2011). Effects of occupational stress, job characteristics, coping, and attributional style on the mental health and job satisfaction of university employees, *Anxiety, Stress and Coping*, 25, 1–16.

Mark, G. M., and Smith A. P. (2018). A Qualitative Study of Stress in University Staff, *Advances in Social Sciences Research Journal*, 5(2). 238-247.

Mark, G. M., and Smith, A. P. (2008). Stress models: a review and suggested new direction. In: Houdmont, J. and Leka, S. eds. Occupational Health Psychology, *European Perspectives*  on Research, Education and Practice, 3(1). Nottingham: Nottingham University Press, 111-144.

Markovits, Y., Davis, A. J., and Dick, R., (2007). Organizational Commitment Profiles and Job Satisfaction among Greek Private and Public-Sector Employees, *International Journal of Cross Cultural Management*, 7(1), 77-99.

Martins, N., and Coetzee, M. (2007). Organisational culture, employee satisfaction, perceived leader emotional competency and personality type: An exploratory study of a South African engineering company, *SA Journal for Human Resource Management*, 5(2), 20–32.

Matthews, B., and Ross, L. (2010). *Research methods: a practical guide for the social sciences*. Harlow: Longman. Available as an e-book via the Library catalogue: <u>http://prism.talis.com/derby-ac/</u>. Last accessed: 14<sup>th</sup> January 2018.

Mathieu, J. E., and Zajac, D. M., (1990). A review and meta-analysis of the antecedents, correlates and consequences of organizational commitment, *Psychological Bulletin*, Vol. 108(2), 171-194.

Maxwell, G, and Steele, G. (2003). Organisational commitment: a study of managers in hotels, *International Journal of Contemporary Hospitality Management*, 15(7), 362 - 369.

May, T. (2011) *Social research: issues, methods and process*. 4th ed. Maidenhead: Open University Press. Available as an e-book via the Library catalogue: <u>http://prism.talis.com/derby-ac/</u>. Last accessed: 14<sup>th</sup> January 2018.

McBurney, D. H., and White, T. L. (2010). *Research Methods*. 8th Edition. Wadsworth Cegage Learning Inc. New York. USA.

McCann, R. (2011). *Personal Resources Training: A New Approach for Builiding Sustainable Competitive Advantage*, Northwestern School of Education and Social Policy. Retrieved from: https://www.sesp.northwestern.edu/masters-learning-and-organizational-change/knowledge-lens/stories/2012/personal-resources-training-a-new-approach-for-building-sustainable-competitive-advantage.html.

McDonald, G. M. (2000). Cross-sectional Methodological Issues in Ethical Research, *Journal* of Business Ethics, 27, 89-104.

McKim, C. A. (2017). The Value of Mixed Methods Research: A Mixed Methods Study. Journal of Mixed Methods Research, 11(2), 202–222. https://doi.org/10.1177/1558689815607096.

McMillan, J. H., and Schumacker, S. (2006). *Research in education: Evidence-based inquiry*, 6th Edition, Boston: Pearson Education.

McNabb, D. E. (2008). *Research Methods in Public Administration and Non-profit Management: Quantitative and Qualitative Approaches*, M.E. Sharpe Incorporated, University of Michigan, USA.

Mead, M. (1953). *Culture at a Distance*. In: M. Mead and R. Metraux (eds.), Culture at a Distance. Chicago: University of Chicago Press.

Meng, X. (2013). "*Scalable Simple Random Sampling and Stratified Sampling*" (PDF). Proceedings of the 30th International Conference on Machine Learning (ICML-13), 531–539.

Metcalf, H., Rolfe, H., Stevens, P., and Weale, M. (2005). *Recruitment and Retention of Academic Staff in Higher Education*, National Institute of Economic and Social Research, Research Report RR658, Available at: <a href="http://webarchive.nationalarchives.gov.uk/20130323033821/https://www.education.gov.uk/publications/eOrderingDownload/RR658.pdf">http://webarchive.nationalarchives.gov.uk/20130323033821/https://www.education.gov.uk/publications/eOrderingDownload/RR658.pdf</a>. Last accessed: 14<sup>th</sup> January 2018.

Meyer, J. P., and Allen, N. J. (1997), *Commitment in the Workplace: Theory, Research and Application*, Sage Publishes, London.

Meyer, J. P., Stanley, D. J., Herscovitch, L., and Topolnytsky, L. (2002). *Affective, Continuance, and Normative Commitment to the Organisation: A Meta-analysis of Antecedents, Correlates, and Consequences.* Available at: <u>http://www.sciencedirect.com/science/article/pii/S0001879101918421</u>. Last accessed: 22<sup>nd</sup>February 2017.

Miarkolaei, H., and Miarkolaei, H. (2014). An investigation on relationship between employees' job satisfaction and organizational commitment. Management Science Letters, 4(4), 669-678.

Ministry of Education (2015). *Pakistan: Education for All 2015 National Review Report*. Available at: <u>http://unesdoc.unesco.org/images/0022/002297/229718E.pdf</u>. 22<sup>nd</sup>February 2017.

Ministry of Education Pakistan (2015). Federal Budget 2016-2017. Budget in Brief, FinanceDivision,Islamabad,Availableat:http://www.finance.gov.pk/budget/Budget\_in\_Brief\_2016\_17.pdf.Lastaccessed:22<sup>nd</sup>February 2017.

Mishra, D., Kapse, S., and Bavad, D. (2013). Employee Engagement at Banks in Kutch, *International Journal of Application or Innovation in Engineering and Management (IJAIEM)*. Volume 2 (7), Available at: <u>http://www.ijaiem.org/volume2issue7/IJAIEM-2013-07-25-088.pdf</u>. Last accessed: 4<sup>th</sup> October, 2017.

Mitic, S., Vukonjanski, J., Terek, E., Gligorovic, B., and Zoric, K. (2016). Organizational Culture and Organizational Commitment: Serbian Case, *Journal of Engineering Management and Competitiveness*, 6(1), 21-27.

Miyazaki, A. D. and Taylor, K. A. (2008). Researcher Interaction Biases and Business Ethics Research: Respondent Reactions to Researcher Characteristics, *Journal of Business Ethics*, 81: 779-795.

Morgan, D. L. (2008). *The SAGE Encyclopaedia of Qualitative Research Methods*. SAGE Publications, Inc. 816–817.

Morgan, D. L. (2006). *Connected contributions as a motivation for combining qualitative and quantitative methods*. In: Curry L, Shield R, Wetle T, eds. Improving Aging and Public Health Research: Qualitative and Mixed Methods. Washington, DC: American Public Health Association and Gerontological Society of America; 53–63.

Morse, J., Wolfe, R., and Niehaus, L. (2006). *Principles and procedures of maintaining validity for mixed-method design*. In: Curry L, Shield R, Wetle T, eds. Improving Aging and Public Health Research: Qualitative and Mixed Methods. Washington, DC: American Public Health Association and Gerontological Society of America. 65–78.

Moser, C. (2015). *At Work*. Uyen Vu (editor). Institute for Work and Health. Issue. 81. Summer. Available at: <u>https://www.iwh.on.ca/system/files/at-work/at\_work\_81.pdf</u>. Last accessed: 4<sup>th</sup> October, 2017. Moss, P. A. (2004). The Meaning and Consequences of "Reliability", *Journal of Educational and Behavioral Statistics*, 29(2), 245-249.

Mowday, R. T., Steers, R. M., and Porter, L. W. (1982). *Employee-Organizational Linkages: The Psychology of Commitment, Turnover, and Absenteeism*, New York: Academic Press.

Mowday, R. T., Steers, R. M. and Porter, L. W. (1979). The measurement of organizational commitment, *Journal of Vocational Behavior*, 14, 224-247.

Muaz, J. M. (2013). *Practical Guidelines for conducting research*. Summarising good research practice in line with the DCED Standard.

Nachtigall, C., Kroehne, U., Fune, F., and Steyer, R. (2003). (Why) Should We Use SEM? Pross and Cons of Structural Equation Modelling, *Methods of Psychological Research Online*, 8(2), 1-22.

Nasir, S. Z., and Mahmood, N. (2016). Determinants of Employee Retention: An Evidence from Pakistan, *International Journal of Academic Research in Business and Social Sciences*, 6(9), 182-194.

National Institute for Occupational Safety and Health (1999). Stress...at Work. Centers for Disease Control and Prevention, U. S. Department of Health and Human Services. Publication no. 99-101.

Nelson, D. L., and Simmons, B. L. (2004). *Eustress: An Elusive Construct an Engaging Pursuit*. P. L. Perrewé, D. C. Ganster (ed). First ed. Oxford, UK: Elsevier Jai.

Neuman, W. L. (2011). *Social research methods: qualitative and quantitative approaches*, 7th Edition, London: Pearson Education.

Niglas, K. (2007). Media Review: Microsoft Office Excel Spreadsheet Software, *Journal of Mixed Methods Research*, 1(3).

Ning, Y. (2006). *Examination of Influences of Cultural Dimensions on Three Components of Career Commitment in Dutch and Chinese Cultures*. Unpublished Master's Thesis, University of Twente. Available at: <u>http://essay.utwente.nl/57853/1/scriptie\_Ning.pdf</u>. Last accessed: 12<sup>th</sup> March 2017.

Nunnally, J. C., and Bernstein, I. H. (1994). *Psychometric theory*, (3rd ed.). McGraw-Hill, Inc. New York: USA.

Obico, J. (2011). *Research Process - Objective and Hypothesis*. (Lec 2). Available at: <u>http://www.slideshare.net/jasperidium/research-process-objective-hypothesis-lec2</u>. 22<sup>nd</sup> February 2017.

Ofoegbu, F. and Nwandiani, M. (2006). Level of perceived stress among lecturers in Nigerian Universities, *Journal of instructional psychology*, 33(1), 66-74.

Omolara, B. E. (2008). Influence of Work Related Stress on Organizational Commitment at Olabisi Onabanjo University Ago Iwoye Ogun State Nigeria, EABR and TLC Conferences Proceedings Rothenburg, Germany.

Ostroff, C. (1993). Relationships between Person-Environment Congruence and Organizational Effectiveness, *Group and Organization Management*, 18(1), 103-122.

Oyetimein, C. F. (2009). *Executive Stress Management: A Contemporary Approach*. 2nd edition. Ibafo, Premium Management: Training and Consultancy Services.

Ozeren, E., and Aydin, E. (2016). *What does being LGBT mean in the workplace? A comparison of LGBT equality in Turkey and the UK*. In Research Handbook of International and Comparative Perspectives on Diversity of Management. SAGE Publication. London.

Palich, L. E., Hom, P. W., and Griffeth, R. W. (1995). Managing in the international context: Testing cultural generality of sources of commitment to multinational enterprises, *Journal of Management*, 21, 671-690.

Palinkas, L. A., Horwitz, S. M., Green, C. A., Wisdom, J. P., Duan, N., and Hoagwood, K. (2015). Purposeful Sampling for Qualitative Data Collection and Analysis in Mixed Method Implementation Research. *Administrative Policy Mental Health*, 1–12.Pallant, J. (2016). *SPSS Survival Manual. A Step by Step Guide to Data Analysis Using SPSS*, 23rd edn. Maidenhead: Open University Press.

Pallant, J. (2007). SPSS survival manual, a step by step guide to data analysis using SPSS for windows. 3ed. Sydney: McGraw Hill. 179–200.

Palthe, J. (2014). Regulative, Normative, and Cognitive Elements of Organizations: Implications for Managing Change, *Management and Organizational Studies*, 1(2), 59-66. Pasch, J. R. (2008). Organizational Commitment in a Technology-focused Organization: An investigation of Military, Government Service, and Contracted Personnel. Capella University, ProQuest Dissertations Publishing.

Patton, M. Q. (2002). *Qualitative Research and Evaluation Methods*. 3rd ed. Thousand Oaks, Calif: Sage Publication Inc.

Peng, M. W., and Heath, P. S. (1996). The growth of the firm in planned economies in transition: Institutions, organizations, and strategic choice, *Academy of Management Review*, 21(2), 492-528.

Perrewe, P. L., and Zellars, K. L. (1999). An examination of attributions and emotions in the transactional approach to the organizational stress process, *Journal of Organizational Behavior*, 20, 739-752.

Perry, J. (1997). Antecedents of Public Service Motivation, *Journal of Public Administration Research and Theory*, 7(2), 181-197.

Peters, L. (2018). Pragmatism theory of truth, Cambridge: Cambridge University Press.

Phillips A. C. (2013). *Perceived Stress*. In: Gellman M.D., Turner J.R. (eds) Encyclopedia of Behavioral Medicine. New York: Springer.

Pierce, J. L., and Gardner, D. G. (2004). Self-Esteem Within the Work and Organizational Context: A Review of the Organization-Based Self-Esteem Literature, *Journal of Management*, 30(5), 591-622.

Pitariu, H. D., Radu I., and Chraif M. (2009). Selection and psychological evaluation of personnel, *Supplement for The Journal of Human Resources Psychology*, Cluj: Editura AsociaGiei de ùtiinGe Cognitive.

Pitariu, H. D., and Chraif, M. (2009). Assessing professional performance, *Supplement for The Journal of Human Resources Psychology*, Cluj: Editura AsociaĠiei de ùtiinĠe Cognitive.

Polit, D. F., Beck, C. T., and Hungler, B. P. (2001). *Essentials of Nursing Research: Methods*, Appraisal and Utilization. 5th Ed. Lippincott Williams and Wilkins. Philadelphia. USA.

Pope, C., and Mays, N. (1995). Reaching the parts other methods cannot reach: an introduction to qualitative methods in health and health services research, *British Medical Journal*, 311, 42–45.

Popper, K. R. (1959). The Logic of Scientific Discovery, London: Hutchinson.

Popper K. R. (1969). Conjectures and Refutations, London: Routledge and Kegan Paul.

Porter, L. W., Steers, M. R., Mowday, T. R. and Boulian, V. P. (1974). Organizational commitment, job satisfaction, and turnover among psychiatric technicians, *Journal of Applied Psychology*, 59(5), 603-609.

Power, C., and Elliott, J. (2006). Cohort Profile: 1958 British Cohort Study, *International Journal of Epidemiology*, 35(1), 34-41.

Proctor, T. (2003). "Essentials of Marketing Research", 3rd edition, Prentice Hall.

Punch, K. F. (1998). Introduction to Social Research, Sage, London.

Ramzan, S. (2015). *A comparison between education in Pakistan and UK*. Available at: <u>https://es.slideshare.net/sheroz\_ramzan/a-comparison-between-education-in-pakistan-and-uk</u>. Last accessed: 17<sup>th</sup> February 2017.

Randall, M. L., Cropanzano, R., Bormann, C. A., Birjulin, A. (1999). Organizational politics and organizational support as predictors of work attitudes, job performance, and organizational citizenship behavior, *Journal of Organizational Behavior*, 20(2), 159-174.

Raykov, T., and Penev, S. (2002). *Exploring structural equation model misspecifications via latent individual residuals*. In G. A. Marcoulides and I. Moustaki (Eds.), Latent variable and latent structure models (pp. 121-134). Mahwah, NJ: Lawrence Erlbaum.

Razali, No., and Wah, Y. B. (2011). "Power comparisons of Shapiro–Wilk, Kolmogorov– Smirnov, Lilliefors and Anderson–Darling tests" (PDF), *Journal of Statistical Modelling and Analytics*, 2(1), 21–33.

Reade, C. (2001). Dual identification in multinational corporations: Local managers, and their psychological attachment to the subsidiary versus the global organization, *International Journal of Human Resource Management*, 12, 405-424.

Reed, S. A., Kratchman, S. H. and Strawser, R. H. (1994). Job satisfaction, organizational commitment, and turnover intentions of United States accountants: The impact of locus of control and gender, *Accounting, Auditing and Accountability Journal*, 7(1), 31-58.

Reedy, J. (2009). *Creating a research agenda*. Available at: <u>https://www.insidehighered.com/advice/mentor/reedy</u>. Last accessed: 22<sup>nd</sup> February 2017.

Reichers, A. (1985). A review and reconceptialitzion of organizational commitment, *The Academy of Management Review*, 10(3), 465-476.

Reskin, A. (2008). *Podcast Transcript for Working with Stress*. SAGE Publication. UK. Available at: <u>http://www.cdc.gov/niosh/docs/video/pdfs/WorkingwithStress.pdf</u>. 22<sup>nd</sup> February 2017.

Resnik, D. B. (2011). What is ethics in research and why is it important? National Institute ofEnvironmentalHealthSciences.Availableat:http://www.niehs.nih.gov/research/resources/bioethics/whatis.22<sup>nd</sup> February 2017.

Reynolds, P. D. (1975). Value dilemmas in the professional conduct of social science, *International Social Science Journal*, 27, 563–611.

Reyes, P., and Pounder, D. G. (1993). Organizational orientation in public and private elementary schools, *The Journal of Educational Research*, 87, 86-93.

Rhoades, L., Eisenberger, R., and Armeli, S. (2001). Affective commitment to the organization: The contribution of perceived organizational support, *Journal of Applied Psychology*, 86, 825–836.

Rhoades, L. and Eisenberger, R. (2003). Perceived organizational support: A review of the literature, *Journal of Applied Psychology*, 87(4), 698-714.

Rhoades, L., Eisenberger, R. and Armeli, S. (2002). Affective commitment to the organization: The contribution of perceived organizational support, *Journal of Applied Psychology*, 86(5), 825-836.

Richerson, P. J., and Boyd, R. (2005). *Not by Genes Alone: How Culture Transformed Human Evolution*. Chicago, IL: University of Chicago Press.

Riemer, F. J., Lapan, S. D. and Quartaroli, M. T. (2012) *Qualitative research: an introduction to methods and designs*. San Francisco: Jossey-Bass. Available as an e-book via the Library catalogue: <u>http://prism.talis.com/derby-ac/</u>. 22<sup>nd</sup> February 2017.

Riemer, M., Trojan, J., Kleinböhl, D., and Hölzl, R. (2012). A "view from nowhen" on time perception experiments, *Journal of Experimental Psychology: Human Perception and Performance*, 38(5), 1118-1124.

Ripberger, J. T., Swedlow, B., Silva, C. L. and Jenkins-Smith, H. (2015). *Operationalizing Cultural Theory in Survey Research: Assessing the Validity of Different Approaches to Conceptualization and Measurement*, Montreal: European Consortium for Political Research.

Riggle, R. J., Edmondson, D. R. and Hansen, J. D. (2009). A meta-analysis of the relationship between perceived organizational support and job outcomes: 20 years of research, *Journal of Business Research*, 62(10), 1027-1030.

Rizzo, J., House, R., and Lirtzman, S. (1971). Role conflict and ambiguity in complex organizations, *Administrative Science Quarterly*, 15, 150-163.

Robbins P., and Coulter, M. R. (2003), "*Management*", 7th ed., EnglewoodCliffs, NJ: Prentice-Hall.

Robbins, S. P., and Judge, T. A. (2009). *Organizational behavior*. New Jersey: Pearson Education, Inc. P. 716.

Robert, A. (2015). *General Strain Theory and Delinquency*. The Handbook of Juvenile Delinquency and Juvenile Justice Krohn/The Handbook of Juvenile Delinquency and Juvenile Justice: 237–256.

Roberts, P., and Traynor, M. (2006). Reliability and Validity in Research, Nursing Standard,Vol.20(44).41045.Availableat:http://journals.rcni.com/doi/pdfplus/10.7748/ns.20.44.41.s56.Last accessed: 21st December2017.

Robins, S. P. and Judge, T. A. (2009), *Organizational Behavior*, Englewood Cliffs, NJ: Prentice Hall. pp. 65.

Robson, C. (1993), *Real World Research: A Resource for Social Scientists and Practitioners-Researchers*, Oxford: Blackwell. Roser, M. (2019). *Human Development Index (HDI)*. Retrieved from: https://ourworldindata.org/human-development-index#citation.

Roscoe, J.T. (1975). *Fundamental Research Statistics for the Behavioural Sciences*, 2nd edition. New York: Holt Rinehart and Winston.

Ross, S. (2016). What are the advantages and disadvantages of using systematic sampling? Available at: <u>http://www.investopedia.com/ask/answers/042415/what-are-advantages-and-disadvantages-using-systematic-sampling.asp</u>. Last accessed: 12<sup>th</sup> November 2017.

Ruiller, C., and van der Heijden, B. (2014). Socio-emotional support at work: effects on French nurses' job strain and affective commitment, *Applied Nursing Research*, 29, 229-236.

Rumsey, D. J. (2002). Statistical literacy as a goal for introductory statistics courses, *Journal* of Statistics Education, 10(3). Available at: <u>http://www.amstat.org/publications/jse/v10n3/rumsey2.html</u> Last accessed: 12<sup>th</sup> November 2017.

Russell, J. A. (1980). A circumplex model of affect. *Journal of Personality and Social Psychology*, 39(1), 161-178.

Rutherford, B., Boles, J. S., Hamwi, G. A., and Rutherford, L. G. (2010). Perceived organizational support and the seven facets of salesperson job satisfaction, *Journal of Selling and Major Account Management*. Winter Edition. Available at: <u>http://www.cob.niu.edu/jsmam/archive/10-01-01article.pdf</u>. Last accessed: 12<sup>th</sup> November 2017.

Rydstedt, L. W., Devereux, J., and Sverke, M. (2007). Comparing and combining the demandcontrol-support model and the effort reward imbalance model to predict long-term mental strain, *European Journal of Work and Organizational Psychology*, 16(3), 261-278.

Saari, L. M., and Judge, T. A. (2004). Employee Attitudes and Job Satisfaction, *Human Resource Management*, 43(4), 395–407.

Sackey, J., and Sanda, M.A. (2011). Sustenance of Human Capital: Social Support as a Managerial Stress Reliever for Women in Developing Economies, *Research and Practice in Human Resource Management*, 19(2), 1-23.

Sackey, M., and Sanda, J. (2011). Sustenance of Human Capital: Social Support as a Managerial Stress Reliever for Women in Developing Economies, *Research and Practice in Human Resource Management*, 19(2), 1-23.

Saeed, M. (2007). Education System of Pakistan and the UK: Comparisons in Context to Interprovincial and Inter-countries Reflections, *Bulletin of Education and Research*. 29(2), 43-57.

Saleem, S., and Qamar, B. (2017). An investigation of the antecedents of turnover intentions and job hopping behavior: An empirical study of universities in Pakistan, *South Asian Journal of Business Studies*, 6(2), 161-176.

Samuels, T. (2004). Qualitative methods in social researches. NY, USA: SAGE.

Sanda, M. A., and Sackey, J. (2010). Unmasking the socio-cultural constraints to career growth of married women in Ghanaian organisations, *Advancing Women in Leadership Journal*, 32(20), 1-19.

Saunders, M., Lewis, P., and Thornhill, A. (2012). *Research Methods for Business Students*. 6th ed, Harlow: Prentice Hall Financial Times.

Saunders, M., Lewis, P., and Thornhill, A. (2009). *Research Methods for Business Students*, 6th ed, Harlow: Prentice Hall Financial Times.

Saunders, M., Lewis, P., and Thornhill, A. (2007). *Research methods for business students*, 4th Edition. London: Prentice HallFinancial Times.

Saunders, M., Lewis, P., and Thornhill, A. (2003). *Research Methods for Business Students*, 2nd ed, Harlow: Prentice Hall Financial Times.

Savage, M. (2017). Almost a quarter of teachers who have qualified since 2011 have left profession. [The Guardian]. Available at: https://www.theguardian.com/education/2017/jul/08/almost-a-quarter-of-teachers-who-have-qualified-since-2011-have-left-profession. Last accessed: 22<sup>nd</sup> February 2017.

Schabracq, M. J. and Cooper, C. L. (2000). The changing nature of work and stress, *Journal of Managerial Psychology*, 3, 227-241.

Schaffer, J. (2015). What Not to Multiply Without Necessity, *Australasian Journal of Philosophy*, 93(4), 644–664, Doi: 10.1080/00048402.2014.992447.

Schwartz, S. H. (1999). A theory of cultural values and some implications for work, *Applied Psychology: An International Review*, 48, 23-47.

Schwarzer, R., and Leppin, A. (1991). Social support and health: A theoretical and empirical overview, *Journal of Social and Personal Relationships*, 8, 99-127.

Schwepker, C.H. (2001). Ethical climate's relationship to job satisfaction, organizational commitment, and turnover intention in the sales-force, *Journal of Business Research*, 54, 39-52.

Scott, R., and Howard, A. (1970). *Models of stress*. In: Levine S. and Scotch N. (eds). Social Stress. Chicago: Aldine, pp. 9-19.

Seale, C. (1999). Quality in qualitative research, *Qualitative Inquiry*, 5(4), 465-478.

Seeman, M., and Lewis, S. (1997). Powerlessness, health and mortality: A longitudinal study of older men and mature women. *Social Science and Medicine*, 41, 517–525.

Seidu, P. A., and Boache-Mansah, F. O., (2012). Employees' Perception of Performance Appraisal System: A Case Study: Educational Sector, *International Journal of Business and Management*, Vol. 7 (2), January 2012. Available at: <u>http://www.ccsenet.org/journal/index.php/ijbm/article/viewFile/12311/9885</u>.Last accessed: February 22, 2017.

Sekaran, U., and Bougie, R. (2012). *Research methods for business: A skill building approach*. (6th ed.). West Sussex, UK: John Wiley and Sons.

Sekaran, U., and Bougie, R. (2010). *Research methods for business: A skill building approach* (5th ed.). West Sussex, UK: John Wiley and Sons.

Selye, H. (1931). Stress without distress. Philadelphia: J.B. Lippincott Company. 171.

Selye, H. (1936). A syndrome produced by diverse nocuous agents, *Nature*, 138, 32.

Selye, H. (1976). The Stress of Life (rev. edn.). New York, USA: McGraw-Hill.

Selye, H. (1976). Stress in health and disease. Reading, MA: Butterworth.

Sempane, M. E., Rieger, H. S. and Roodt, G. (2002). Job satisfaction in relation to organisational culture, *South African Journal of Industrial Psychology*, 28(2), 23–30.

Shadish, W. R., Cook, T. D., and Campbell, D. T. (2002). *Experimental and Quasi-Experimental designs for Generalized Causal Inference*. 2nd Edition. Boston, USA: Hoghtom Mifflin Company. pp. 267.

Shaukat, M. Z., Dr. Senin, A. A., and Ahmed, I. (2012). An exchange perspective of job satisfaction: A study of banking sector of Pakistan, *Business Management Dynamics*. 1(2), 59-65. Available at: <u>http://bmdynamics.com/issue\_pdf/bmd110220-%2059-65.pdf</u>. Last accessed: 22<sup>nd</sup> February 2017.

Shapiro, S. S., and Wilk, M. B. (1965). An analysis of variance test for normality (complete samples), *Biometrika*, 52 (3–4): 591–611.

Sheldon, M. (1971). Investments and involvements as mechanisms producing commitment to the organization, *Administrative Science Quarterly*, 16, 143-150.

Sherer, P. D., and Lee, K. (2002). Institutional change in large law firms: A resource dependency and institutional perspective, *Academy of Management Journal*, 45(1), 102-119.

Shigeno, H. (2017). *Empirical Analysis of the Innovation Process of SMEs by Structural Equation Modeling (SEM)*, Doctoral Dissertation. Japan: Graduate School of Applied Informatics, University of Hyogo.

Siegrist, J. (1996). Adverse health effects of high-effort/low-reward conditions, *Journal of Occupational Health Psychology*, 1, 27-41.

Silva, P. (2006). Effects of disposition on hospitality employee job satisfaction and commitment, *International Journal of Contemporary Hospitality Management*, 18(4), 317-328.

Singh, K. (2007). Quantitative Social Research Methods. Los Angeles, CA, USA: Sage.

Singh, Y.K. and Bajpai, R.B. (2008). *Research methodology: techniques and trends*. New Delhi, India: APH publishing Corporation.

Smeltzer, S. C., and Bare, B. G. (2004). *Brunner and Suddarth's Textbook of Medical-Surgical Nursing*. 10th edition. Philadelphia, USA: Lippincott Williams and Wilkins. Smith, A., Johal, S. S., Wadsworth, E., Davey Smith, G., and Peters, T. (2000). *The Scale of Occupational Stress: the Bristol Stress and Health at Work Study*. HSE Books. Report 265/2000.

Smith S. L. (2010). 'Naïve Expertise: Spacious Alternative to the Standard Account of Method', *Philosophy of Management*, 9(3), 95-133.

Smith, S. L. (2014). Arlie Russell Hochschild: Spacious Sociologies of Emotion. In: P. Adler,P. du Gay, G. Morgan, and M. Reed. *The Oxford Handbook of Sociology, Social Theory, and Organization Studies: Contemporary Currents*. Oxford: Oxford University Press.

Snell, L. (1999). *Using Chance media to Promote Statistical Literacy*. Paper presented at the 1999 Joint Statistical Meetings, Dallas, TX.

Snell, L., and Finn, J. (1992). A Course Called Chance, Chance, 5, 12-16.

Sober, E. (2015). Ockam's Razor: A User's Manual. Cambridge University Press, p. 4.

Söderberg, M. (2014), *Psychosocial Work Conditions - Cardiovascular Disease, Perceptions* and *Reactive Behaviour*. [Researchgate]. Available at: <u>https://www.researchgate.net/publication/275016457\_Psychosocial\_Work\_Conditions\_-</u> <u>Cardiovascular\_Disease\_Perceptions\_and\_Reactive\_Behaviour</u>. Last accessed: 22<sup>nd</sup> February 2017.

Sofaer, S., and Firminger, K. (2005). Patient perceptions of the quality of health services, *Annual review Public Health*, 26, 513-559.

Sofaer S. (1999). Qualitative methods: what are they and why use them? *Health Survey Research*, 34(2), 1101-1118.

Solomon, R. C. (1973). Emotions and choice. Review of Metaphysics, 27, 20-41.

Solomon, R. C. (2002). *Spirituality for the skeptic: The thoughtful love of life*. New York: Oxford University Press.

Somers M. J., (2009). The combined influence of affective, continuance and normative commitment on employee withdrawal, *Journal of Vocational Behavior*, 74, 75-81.

Sonnentag, S., and Frese, M. (2003). *Stress in organizations*. In W. C. Borman, D. R. Ilgen, and R. J. Klimoski (Eds.), Comprehensive handbook of psychology (Vol. 12: Industrial and organizational psychology, pp. 453–491). Hoboken, NJ: Wiley.

Spector, P.E. (2003). *Individual differences in health and well-being in organisations*, In D.A. Hoffman L.E. Tetrick (eds). Health and Safety in Organisations: A Multilevel Perspective. in the Society of Industrial and Organizational Psychology. San Francisco, CA: Jossey- Bass, Inc.

Spector, P. E., and Fox, S. (2003). Reducing subjectivity in the assessment of the job environment: development of the Factual Autonomy Scale (FAS), *Journal of Organizational Behavior*, 24(4), 417-432.

Stamper, C. L. and Johlke, M. C. (2003). The impact of perceived organizational support on the relationship between boundary spanner role stress and work outcomes, *Journal of Management*, 29(4), 569-588.

Steele, P., and Ones, D. S. (2002). Personality and happiness: A national-level analysis, *Journal* of *Personality and Social Psychology*, 83, 767–781.

Steers, R. M. (1977). Antecedents and outcomes of organizational commitment, *Administrative Science Quarterly*, 22(1), 46-56.

Stenbacka, C. (2001). Qualitative research requires quality concepts of its own, *Management Decision*, 39(7), 551-555.

Stimson S. (2004). *Types of data. In Republican Ascendancy in Southern U.S. House Elections* by Seth C. McKee, New York, USA: Westviews Press, Routledge.

Stoica, M., and Buicu, F. (2010). Occupational Stress Management, *Management in Health*, 14(2).7-9.

Stoica, M. (2007). Stress Management for Occupational Stress, Management in Health. 3(5).

Stranks, J. (2005). *Stress at Work: Management and Prevention*. Oxford: Elsevier Butterworth-Heinemann.

Suchman, M. C. (1995). Managing legitimacy: Strategic and institutional approaches, *Academy* of Management Review, 20(3), 571-610.

Suleiman W. (2013). A Study of Causes of Poor Attitude to Work among workers of both Public and Private Sectors Organizations, *International Journal of Academic Research in Business and Social Sciences*. 3(7). Available at: http://hrmars.com/hrmars\_papers/A\_Study\_of\_Causes\_of\_Poor\_Attitude\_to\_Work\_among\_ workers of both\_Public\_and\_Private\_Sectors\_Organizations\_in\_Bauchi\_State-Nigeria. 2.pdf. Last accessed: 22<sup>nd</sup> February 2017.

Susskind, A. M., Borchgrevink, C. P., Kacmar, K. M. and Brymer, R. A. (2000). Customer service employees' behavioral intentions and attitudes: An examination of construct validity and a path model, *International Journal of Hospitality Management*, 19(1), 53-77.

Sveinsdo, H., Biering, P., and Ramel, A. (2006). Occupational Stress, Job Satisfaction and working environment among Icelandic nurses: A cross-sectional questionnaire survey, *International Journal of Nursing Studies*, 43, 875-889.

Szaif, J. (2006). '*Die Geschichte des Wahrheitsbegriffs in der klassischen Antike*', In: M. Enders and J. Szaif, eds., Die Geschichte des philosophischen Begriffs der Wahrheit, Berlin-New York: De Gruyter, 1-32.

Taber, K. S. (2017). The Use of Cronbach's Alpha When Developing and Reporting Research Instruments in Science Education, *Research in Science Education*, 1–24.

Tamar, A. (2009). Israeli-Palestinian border enterprises revisited, *Journal of Borderlands Studies*, 24(2), 1–14.

Tan, S. L. C., and Lau, C. M. (2012). The Impact of Performance Measures on Employee Fairness Perceptions, Job Satisfaction and Organisational Commitment, *JMAR*, 10(2). Available at:

http://www.cmawebline.org/joomla4/images/stories/JAMAR\_2012\_Summer/JAMARv10.2-Performance\_Measures.pdf. Last accessed: 22<sup>nd</sup> February 2017.

Tansky, W. J., and Cohen, J. D. (2001). The relationship between organizational support, employee development, and organizational commitment: An empirical study, *Human Resource Development Quarterly*, 12(3), 285-300.

Tashakori, A., and Teddlie, C. (2003). *Handbook of mixed-methods in social and behavioural research* (pp. ix-xv). Thousand Oaks, California, USA: SAGE.

Tashakkori, A., and Teddlie, C. (1998). *Mixed Methodology: Combining Qualitative and Quantitative Approaches*, London: SAGE.

Tavakol, M., and Dennick, R. (2011). Making sense of Cronbach's alpha, *International Journal of Medical Education*, 2, 53-55.

Teijlingen van, E., Rennie, A.M., Hundley, V., and Graham, W. (2001). The importance of conducting and reporting pilot studies: the example of the Scottish Births Survey, *Journal of Advanced Nursing*, 34, 289-295.

Terry, P. M. (1997, April). *Teacher burnout: Is it real? Can we prevent it?* Paper presented at the annual meeting of the North Central Association of Colleges and Schools, Chicago, IL. (ERIC Document Reproduction Service No. ED 408 258).

THC (2006). *Types of Stress*, [The Health Centre], Available at: <u>https://digital.nhs.uk/data-and-information/publications/statistical/health-survey-for-england/health-survey-for-england-2006-cvd-and-risk-factors-for-adults-obesity-and-risk-factors-for-children. Last accessed: 22<sup>nd</sup> February 2017.</u>

The World Bank (2015). *The World Bank Annual Report 2015*, Available at: <u>http://www.worldbank.org/en/about/annual-report-2015</u>. Last accessed: 22<sup>nd</sup> February 2017.

Thorne, S. (2000). Data Analysis in Qualitative Research, *Evidence Based Nursing Journal*, 3(3), 68-70.

Thorpe, R., and Jackson, P. R. (2015). *Management and Business Research*. 5th Ed. London: SAGE.

Totton, N., and White, P. (2011). *The Ubiquitous Mythical Normal Distribution*. Research and Innovation, University of the West of England. Available at: <u>https://www.nbt.nhs.uk/sites/default/files/attachments/Normal%20Distribution.pdf</u>. Last accessed: 22<sup>nd</sup> February 2017.

Townsend, E. A., and Polatajko, H. J. (2007), *Enabling Occupation II: Advancing an Occupational Therapy Vision for Health, Well-Being, and Justice through Occupation*. Ottawa, ON: CAOT Publications ACE.

Tribune, (2013). *Nine in every 10 Pakistanis are anxious: Survey*. Available at: <u>https://tribune.com.pk/story/594483/nine-in-every-10-pakistanis-are-anxious-survey/</u>. Last accessed: 22<sup>nd</sup> February 2017.

Trochim, W., and Donnelly, J. (2006). *The Research Methods Knowledge Base*. 3rd. Edition. Mason. USA: Atomic dog Publishing Inc.

Trochim, W. M. K. (2006). The Research Methods Knowledge Base. Social Science ResearchMethods.QualitativeValidityandReliability.Availableat:http://www.socialresearchmethods.net/kb/contents.php.Last accessed: 22<sup>nd</sup> February 2017.

Tsebelis, G. (1997). Rational Choice and Culture. APSA-CP 8(2), 15-18.

Tukey, J. W. (1977). Exploratory Data Analysis, 1st Edition, London, UK: Pearson.

Turner, B., and Chelladurai, P. (2005). Organizational and Occupational Commitment, Intention to Leave, and Perceived Performance of Intercollegiate Coaches, *Journal of Sport Management*, 19, 193-211.

Ucar, D., and Utken, A. B. (2010). *Perceived Organizational Support and Organizational Commitment: The Mediating Role of Organization Based Self-Esteem*. 25(2). Available at: <u>http://iibf.deu.edu.tr/deuj/index.php/cilt1-sayi1/article/viewFile/277/pdf\_257</u>. Last accessed: 6<sup>th</sup> November 2016.

Uchenna, O. C., Tolulope, A, and Ayeerun, O. T., (2013). *Perceived Organizational Support and Some Demographic Variables Predicting Organizational Commitment of Non-Teaching Employees in a State-Owned Nigerian*, 21(1). fe Psychologia. Available at: <u>http://www.questia.com/read/1P3-2922991141/perceived-organizational-support-and-some-</u> <u>demographic</u>. Last accessed: 22<sup>nd</sup> February 2017.

UKPS (2016). *UK Public Spending on Education Sector*. Available at: <u>http://www.ukpublicspending.co.uk/</u>. Last accessed: 22<sup>nd</sup> February 2017.

US News (2020). Overall Best Countries Ranking Availabe at: <u>https://www.usnews.com/news/best-countries/overall-rankings</u>. Last accessed: 12<sup>th</sup> February 2020.

Utts, J. (1996), Seeing Through Statistics, Belmont, CA: Duxbury Press.

Van der Doef, M., and Maes, S. (1999). The Job Demand-Control(-Support) Model and psychological wellbeing: a review of 20 years of empirical research, *Work and Stress*, 13, 87-114.

van der Linden, S. (2016). A Conceptual Critique of the Cultural Cognition Thesis. *Science Communication*, 38(1), 128–138. DOI: 10.1177/1075547015614970.

van Vegchel, N., de Jonge, J., and Landsbergis, P. A. (2005). Occupational stress in (inter)action: The interplay between job demands and job resources, *Journal of Organizational Behavior*, 26, 535–560.

Van Yperen, N. W., and Snijders, T. A. B. (2000). A multilevel analysis of the demands– control model: Is stress at work determined by factors at the group level or the individual level? *Journal of Occupational Health Psychology*, 5(1), 182-190.

van Zyl, L. E., Eeden, C. V., and Rothmann, S. (2013). Job insecurity, job stress, organisational commitment and coping in private health care institutions, *South African Journal of Business Management*, 14(1), 75-86.

Vaz, S., Falkmer, T., Passmore, A. E., Parsons, R., and Andreou, P. (2013). The Case for Using the Repeatability Coefficient When Calculating Test–Retest Reliability, *PloS One*, 8(9).

Veldhoven, M. van., Taris, T. W., Jonge, J. de and Broersen, S. (2005). The relationship between work characteristics and employee health and well-being: how much complexity do we really need? *International Journal of Stress Management*, 12, 3-28.

Velnampy, T., and Aravinthan, S. A. (2013). Occupational Stress and Organizational Commitment in Private Banks: A Sri Lankan Experience, *European Journal of Business and Management*, 5(7), 254-267.

Vitaliano, P. P., Russo, J., Carr. J. E., Maiuro, R. D., and Becker, J. (1985). The Ways of Coping Checklist: Revision and Psychometric Properties, *Multivariate behavioral Research*, 20(1), 3-26.

Voicu, M.C. (2011). Using the Snowball Method in Marketing Research on Hidden Populations, *Challenges of the Knowledge Society*, 1, 1341–1351.

Wallace, T. (2015). *Budget 2015 summary and highlights: Everything you need to know*, [The Telegraph]. Available at: <u>http://www.telegraph.co.uk/finance/budget/11724370/key-points-summer.html</u>. Last accessed: 22<sup>nd</sup> February 2017.

Walliman, N. (2001). *Your Research Project: a step-by-step guide for the first-time researcher*. London: SAGE. pp. 194.

Waqas, M., Qureshi, T. M., Anwar, F., and Haroon, S. (2012). Job Satisfaction of Educationists: An important Antecedent for Enhancing Service Quality in Education Sector of Pakistan, *Arabian Journal of Business and Management Review (OMAN Chapter)* 2(2); Sep 2012 Available at: <u>http://www.arabianjbmr.com/pdfs/OM\_VOL\_2\_(2)/3.pdf</u>. Last accessed: 22<sup>nd</sup> February 2017.

Warr, P.B. (1987). Work, unemployment, and mental health. Oxford, UK: Clarendon Press.

Warr, P.B. (1990). Decision latitude, job demands, and employee wellbeing, *Work and Stress*, 4, 285–294.

Watkins, M. D. (2013). *What Is Organizational Culture? And Why Should We Care?* Harvard Business Review. Retrieved from: https://hbr.org/2013/05/what-is-organizational-culture.

Watson, D. E. (2000). *Evaluating Costs and Outcomes, Demonstrating the Value of Rehabilitation Services*. Bethesda, MD: The American Occupational Therapy Association Inc.

Watson, D., and Tellegen, A. (1985). Toward a consensual structure of mood. Psychological Bulletin, 98, 219-235.

Watson, J. (1997). *Assessing Statistical Thinking Using the Media*. In the Assessment Challenge in Statistics Education, eds. I. Gal and J. Garfield, Amsterdam: IOS Press and International Statistical Institute.

Webster. (2019). *Environment*. Webster Dictionary. Retrieved from: https://www.merriam-webster.com/dictionary/environment.

Weiner, Y. (1982). Commitment in Organization: A Normative View, Academy of Management Review, 7, 418-428.

Wells, J. B., Minor, K., Anger, E., Matz, A., and Amato, N. (2009). Predictors of job stress among staff in juvenile correctional facilities, *Criminal Justice and Behavior*, 36(3), 245-258.

Wickramasinghe, D., and Wickramasinghe, V. (2012). Effects of perceived organisational support on participation in decision making, affective commitment and job satisfaction in lean production in Sri Lanka, *Journal of Manufacturing Technology Management*, 23(2), 157-177.

Wieland, A., Durach, C. F., Kembro, J., and Treiblmaier, H. (2017). Statistical and judgmental criteria for scale purification, *Supply Chain Management: An International Journal*, 22(4), 321-328.

Wijnhoven, F., Ehrenhard, M., and Kuhn, J. (2015). Open Government Objectives and Participation Motivations, *Government Information Quarterly*, 32, 30-42.

Williams, G., Thomas, K., and Smith, A. P. (2017). Stress and Well-Being of University Staff: An Investigation Using the Demands-Resources- Individual Effects (DRIVE) Model and Well-Being Process Questionnaire (WPQ), *Psychology*, 8(12), 1919-1940.

Wildavsky, A. (2017). *Culture and Social Theory*. Sun-ki Chai and Brendon Swedlow (eds.). New Brunsick, NJ: Transaction Publishers.

Winter, E. (2015). *Feeling Smart: Why Our Emotions Are More Rational Than We Think*. New York: PublicAffairs.

Wisenthal, A. (2004). Occupational therapy provides the bridge back to work, *Occupational Therapy Now*, 6(4), Available at: <u>http://www.caot.ca//default.asp?pageid=1185</u>. Last accessed: 22<sup>nd</sup> February 2017.

World Economic Reforms (2015). *Why Education is the Key to Development*. World Economic Forum. Available at: <u>https://www.weforum.org/agenda/2015/07/why-education-is-the-key-to-development/</u>. Last accessed: 22<sup>nd</sup> February 2017.

Xanthopoulou D., Bakker A. B., Demerouti E., Schaufeli W. B. (2009). Work engagement and financial returns: a diary study on the role of job and personal resources, *Journal of Occupational and Organisational Psychology*, 82, 183-200.

Yaghoubi, M., Yarmohammadian, M. H., and Javidi, M. (2008). The relation between organizational commitment and job stress between educational hospital managers from Esfahan University, *Health Management Journal*, 11, 63-68.

Yanez, B. C., and Figueroa, A. J. (2011). *Psychological well-being, perceived organizational support and job satisfaction amongst Chilean prison employees.* 13, 91-99. Available at:

http://scielo.isciii.es/pdf/sanipe/v13n3/en\_04\_original3.pdf. Last accessed: 22<sup>nd</sup> February 2017.

Yang, J. T. (2010)/ Antecedents and consequences of job satisfaction in the hotel industry, *International Journal of Hospitality Management*, 29(4), 609-619.

Yates, D. S., Moore, D. S., and Starnes, D. S. (2008). *The Practice of Statistics*, 3rd Ed. NY, USA: Freeman.

Yee, N. (2017). *Beyond 50/50: Breaking Down The Percentage of Female Gamers by Genre,* Quantic Foundry, Available at: <u>https://quanticfoundry.com/2017/01/19/female-gamers-by-genre/</u>. Last accessed: 22<sup>nd</sup> January 2020.

Yilmaz, E., Özer, G., and Günlük, M. (2014). Do organizational policies and organizational commitment affect budgetary slack creation in public organizations? 10th International Strategic Management Conferences, *Procedia - Social and Behavioral Sciences*, 150, 241-250.

Yoon, J., and Thye, S. R. (2002). A dual process model of organizational commitment: Job satisfaction and organizational support, *Work and Occupations*, 29(1), 97-124.

Yusufzai, A. (2016). *Budget 2016-17: Rs. 84 Bln for Education, Rs. 79.5 Bln for Higher Education*, Available at: <u>https://propakistani.pk/2016/06/03/budget-2016-17-rs-84-bln-for-</u>education-rs-79-5-bln-for-higher-education/ Last accessed: 22<sup>nd</sup> February 2017.

Yusoff, R. M., and Khan, F. (2013). Stress and Burnout in the Higher Education Sector in Pakistan: A Systematic Review of Literature, *Research Journal of Recent Sciences*, 2(11), 90-98. Available at: <u>http://www.isca.in/rjrs/archive/v2/i11/13.ISCA-RJRS-2013-213.pdf</u>. Last accessed: 22<sup>nd</sup> February 2017.

Zahid, M., Shaikh, T., and Zehra, S. Z. (2017). Impact of Organizational Culture on the Pakistani Hotels Workforce's Job Satisfaction: Qualitative Report, *International Journal of Applied Business and Management Studies*, 2(1), 37-46.

Zamir, S., and Hina, Q. A. (2005). Cause of Role Stress and Personal Strain among Secondary School Teachers, *Journal of Elementary Education*, 24(2), 81-94.

Zehra, N., and Faizan, R. (2017). The Impact of Occupational Stress on Employees at Project Based Organizations (PBOs) in Pakistan, *International Journal of Applied Business and Management Studies*, 2(1), 1-9.

Zehra, S. Z., Ather, M., and Zehra, B. (2017). A Correlation between Workplace Stress and Organizational Commitment: Doctors response from Public and Private Hospitals in Karachi, Pakistan, *IMPACT: International Journal of Research in Business Management*, *5*(5), 41-52.

Zilber, T. B. (2008). *The work and meanings in institutional processes and thinking*. In R. Greenwood, C. Oliver, K. Sahlin, and R. Suddaby (Eds.), The SAGE Handbook of Organizational Institutionalism. London, U.K: SAGE, 151-169. Available at: http://dx.doi.org/10.4135/9781849200387.n6. Last accessed: 22<sup>nd</sup> February 2017.

Zilber, T. B. (2012). The relevance of institutional theory for organizational culture, *Journal* of *Management Inquiry*, 21(1), 88-93.

Zwieniecki, K. (2013). What is the difference between Realism and Pragmatism? QUORA.Availableat:<a href="https://www.quora.com/What-is-the-difference-between-Realism-and-Pragmatism">https://www.quora.com/What-is-the-difference-between-Realism-and-Pragmatism</a>. Last accessed: 22<sup>nd</sup> February 2017.

## **APPENDIX** A

| Label  | Faculty - Label |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
|--------|-----------------|----------------|-----------------------|--------------------------|----------------|-------------------|--------------------------|------------------------------|----------|--------------------------|-------|------------|
| M      | Т               |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| M      | т               |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| м      | т               |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| M      | т               |                | Number of Respondents |                          |                |                   |                          | Number of Female Respondents |          | Statisfis.               |       |            |
| M      | т               | Themes<br>Male | Letter code (g)       | Frequency                | ~              | Proportion<br>49% | Themes                   | Letter code (FCY)            | FEMALE   | Frequency                | 24    | Proportion |
| M      | т<br>т          | Female         | M<br>F                | Teaching<br>Non-teaching | 24<br>25       | 49%               | Teaching<br>Non-teaching | T<br>NT                      |          | Teaching<br>Non-teaching | 24    | 49%<br>51% |
| M      | Ť               | remare         |                       | Total                    | 49             | 100%              | Non-ceaching             | NI                           | MALE     | Won-teaching             |       | 51%        |
| м      | т               |                |                       |                          |                |                   | -                        |                              |          | Teaching                 | 25    | 51%        |
| M      | NT              |                |                       | Statistic                |                |                   |                          |                              |          | Non-teaching             | 23    | 49%        |
| M      | NT              |                |                       | Frequency                |                | Proportion        |                          | Number of Male Respondents   |          |                          |       |            |
| м      | NT              |                |                       | Teaching                 | 25             | 51%               | Themes                   | Letter code (FCY)            |          | Total Respondents        | 98    |            |
| м      | NT              |                |                       | Non-teaching             | 24             | 49%               | Teaching                 | т                            |          |                          |       |            |
| м      | NT              |                |                       | Total                    | 49             | 100%              | Non-teaching             |                              |          |                          |       |            |
| м      | NT              |                |                       |                          |                |                   | -                        |                              |          |                          |       |            |
| м      | т               |                |                       | Teaching                 | 49             | 50.00%            |                          |                              |          |                          |       |            |
| м      | NT              |                |                       | Non-teaching             |                | 50.00%            |                          |                              |          |                          |       |            |
| м      | NT              |                |                       |                          | 98             | 100%              | -                        |                              |          |                          |       |            |
| м      | т               |                |                       |                          |                |                   | -                        |                              |          |                          |       |            |
| м      | т               |                |                       |                          |                | _                 |                          |                              |          |                          |       |            |
| м      | NT              |                |                       | Respondents              |                |                   |                          |                              |          |                          |       |            |
| М      | NT              |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| м      | NT              |                |                       | Males                    | 49             |                   |                          |                              |          |                          |       |            |
| M      | NT              |                |                       | Females                  | 49             |                   |                          |                              |          |                          |       |            |
| м      | т               |                |                       | Total                    | 98             | -                 |                          |                              |          |                          |       |            |
| M      | т               |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| M      | NT              |                |                       | Teaching                 | 49             | 1                 |                          |                              |          |                          |       |            |
| M      | Т               |                |                       | Non-teaching             |                |                   |                          |                              |          |                          |       |            |
|        | NT              |                |                       | Total                    | 98             |                   |                          |                              |          |                          |       |            |
| M<br>M | Т               |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| M      | NT<br>NT        |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| M      | NT              |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| м      | т               |                |                       |                          | 53             | culty             |                          | 1                            |          |                          |       |            |
| M      | NT              |                |                       | Gender                   | Teaching       | Non-teaching      | Total                    |                              |          |                          |       |            |
| м      | т               |                |                       | Male                     | 25             | 24                | 49                       | 1                            |          |                          |       |            |
| M      | т               |                |                       | Female                   | 24             | 25                | 49                       |                              |          |                          |       |            |
| м      | т               |                |                       | Total                    | 49             | 49                | 98                       | 1                            |          |                          |       |            |
| м      | NT              |                |                       |                          |                |                   |                          | 1                            |          |                          |       |            |
| м      | NT              |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| м      | NT              |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| м      | т               |                |                       | COUNTRY                  |                |                   |                          |                              | COUNTRY  |                          |       |            |
| м      | NT              |                | Gender                | Pakistan                 | United Kingdom | Total             |                          | Faculty                      | Pakistan | United Kingdom           | Total |            |
| м      | т               |                | Male                  | 25                       | 24             | 49                |                          | Teaching                     | 25       | 24                       | 49    |            |
| M      | т               |                | Female                | 24                       | 25             | 49                |                          | Non-teaching                 | 24       | 25                       | 49    |            |
| M      | т               |                | Total                 | 49                       | 49             | 98                |                          | Total                        | 49       | 49                       | 98    |            |
| M      | NT              |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| M      | NT              |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| M      | т               |                |                       |                          |                | PAKIST            |                          | UNITED KINGDOM               |          |                          |       |            |
| F      | NT              |                |                       |                          |                | Male              | Female                   | Male                         | Female   | Total                    |       |            |
| F      | NT              |                |                       |                          | Teaching       | 13                | 12                       | 12                           | 12       | 49                       |       |            |
| F      | NT              |                |                       |                          | Non-teaching   | 12                | 12                       | 12                           | 13       | 49                       |       |            |
| F      | NT              |                |                       |                          | Total          | 25                | 24                       | 24                           | 25       | 98                       |       |            |
| F      | NT              |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| F      | NT              |                |                       |                          |                |                   |                          | _                            |          |                          |       |            |
| F      | т               |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| F      | т               |                |                       |                          |                |                   | ×                        | -                            |          |                          |       |            |
| F      | т               |                |                       |                          |                | 49                |                          | 49                           |          |                          |       |            |
|        |                 |                |                       |                          |                |                   |                          | /                            |          |                          |       |            |
| F      | т               |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| F      | т               |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| F      | т               |                |                       |                          |                |                   |                          | 1                            |          |                          |       |            |
| F      | т               |                |                       |                          |                |                   |                          | 98                           |          |                          |       |            |
| F      | т               |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| F      |                 |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| F      | T<br>NT         |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| F      | NT              |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| F      | NT              |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| F      | NT              |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| F      | т               |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| F      | NT<br>T         |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
|        |                 |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| F      |                 |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| F      | NT              |                |                       |                          |                |                   |                          |                              |          |                          |       |            |
| F      |                 |                |                       |                          |                |                   |                          |                              |          |                          |       |            |

|            |        |          | Responses                          |                | Themes                               | Letter code |              | OVERALL<br>Statisitc          |            | FEMALE<br>Statisitc           |      |              | MALE<br>Statisitc             |  |
|------------|--------|----------|------------------------------------|----------------|--------------------------------------|-------------|--------------|-------------------------------|------------|-------------------------------|------|--------------|-------------------------------|--|
|            | MALE   | 1        | Fine                               | SS T           | Highly satisfied                     | VS          |              | Frequency                     |            | Frequency                     |      |              | Frequency                     |  |
|            |        | 2        | Fine                               |                | Satisfied                            | s           |              | Highly satisfied              | 31         | Highly satisfied              | 18   | 1            | Highly satisfied              |  |
|            |        | 3        | Fine                               | SS T           | Somewhat satisfied                   | SS          |              | Satisfied                     | 29         | Satisfied                     | 13   | :            | Satisfied                     |  |
|            |        | 4        | Good                               | S T            | Neither satisfied nor di             | a N         |              | Somewhat satisfied            | 20         | Somewhat satisfied            | 6    |              | Somewhat satisfied            |  |
|            |        | 5        | Good                               |                | Somewhat dissatisfied                | SD          |              | Neither satisfied nor di:     | 8          | Neither satisfied nor d       | i: 4 |              | Neither satisfied nor di:     |  |
|            |        | 6        | Pleasant                           | s *            | Dissatisfied                         | D           |              | Somewhat dissatisfied         | 5          | Somewhat dissatisfied         |      |              | Somewhat dissatisfied         |  |
|            |        | 7        | Great                              | VS T           | Highly disstatisfied                 | VD          |              | Dissatisfied                  | 1          | Dissatisfied                  | 1    |              | Dissatisfied                  |  |
|            |        | 8        | Fine                               | S T            |                                      |             |              | Highly disstatisfied          | 4          | Highly disstatisfied          | 4    | 1            | Highly disstatisfied          |  |
|            |        | 9        | Perfectly fine                     | VS T           |                                      |             |              | Total                         | 98         | Total                         | 49   |              | Total                         |  |
| -          |        | 10       | Ok                                 | N NT           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 11       | Fine                               | SS NT          |                                      | Teaching    | Non-teaching | OVERALL                       |            | FEMALE                        |      |              | MALE                          |  |
|            |        | 12       | So so                              | SS NT          | Highly satisfied                     | 23          | 8            | Proportion                    | 2011       | Proportion                    | 274  |              | Proportion                    |  |
| ;          |        | 13<br>14 | Yes, it is good<br>Ok              | S NI           | Satisfied<br>Somewhat satisfied      | 13          | 16           | Highly satisfied<br>Satisfied | 32%<br>30% | Highly satisfied<br>Satisfied | 37%  |              | Frequency<br>Highly satisfied |  |
|            |        | 15       | So so                              | SS NT          | Neither satisfied nor di             |             | 6            | Somewhat satisfied            | 20%        | Somewhat satisfied            | 129  |              | Satisfied                     |  |
|            |        | 16       | Amazing                            | VS T           | Somewhat dissatisfied                |             | 2            | Neither satisfied nor di:     |            | Neither satisfied nor d       |      |              | Somewhat satisfied            |  |
|            |        | 17       | Good                               | S NT           | Dissatisfied                         | 0           | 1            | Somewhat dissatisfied         | 5%         | Somewhat dissatisfied         |      | 5            | Neither satisfied nor di:     |  |
|            |        | 18       | Excellent                          | VS NT          | Highly disstatisfied                 | 1           | 3            | Dissatisfied                  | 1%         | Dissatisfied                  | 29   |              | Somewhat dissatisfied         |  |
|            | _      | 19       | Good                               | s t            | Total                                | 49          | 49           | Highly disstatisfied          | 4%         | Highly disstatisfied          | 8%   |              | Dissatisfied                  |  |
| L          |        | 20       | Great<br>Fine. Just ok             | VS T           | Grand total Respondent               | 98          |              | Total                         | 100%       | Total                         | 100% |              | Total                         |  |
|            |        | 21<br>22 | Just ok                            | SS NT<br>SS NT |                                      |             |              |                               |            |                               | Male | Fomale       |                               |  |
|            |        | 22       | Neither satisfied                  |                | 1                                    |             |              |                               |            | Highly satisfied              | 13   | Female<br>18 |                               |  |
|            |        | 24       | I am satisfied                     | S NT           | 1                                    | Teaching    | Non-teaching |                               |            | Satisfied                     | 16   | 13           |                               |  |
|            |        | 25       | Yes, it is good                    | S T            | Highly satisfied                     | 47%         | 16%          |                               |            | Somewhat satisfied            | 14   | 6            |                               |  |
| 1          | MALE   | 26       | Good                               | \$ 1           | Satisfied                            | 27%         | 33%          |                               |            | Neither satisfied nor d       |      | 4            |                               |  |
|            |        | 27       | Ok                                 |                | Somewhat satisfied                   | 14%         | 27%          |                               |            | Somewhat dissatisfied         |      | 3            |                               |  |
| 1          |        | 28       | Excellent                          | VS T           | Neither satisfied nor di             |             | 12%          |                               |            | Dissatisfied                  | 0    | 1            |                               |  |
|            |        | 29       | Its Ok<br>Fantastic. I love        | SS NT          | Somewhat dissatisfied                | 6%<br>0%    | 4%<br>2%     |                               |            | Highly disstatisfied<br>Total | 0    | 4            |                               |  |
|            |        | 30<br>31 | It so so. Ok.                      | SS NT          | Dissatisfied<br>Highly disstatisfied | 2%          | 2%           |                               |            | Grand Total                   | 98   | 49           |                               |  |
|            |        | 32       | I enjoy it                         | VS NT          |                                      | 100%        | 100%         |                               |            | Sileno TUter                  | 50   |              |                               |  |
|            |        | 33       | Not very much                      |                |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        |          | I think its like                   |                |                                      |             |              |                               |            |                               |      |              |                               |  |
| )          |        | 34       | 8/10                               | VS T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 35       | Excitting                          | VS NT          | S                                    |             |              |                               |            |                               |      |              |                               |  |
|            |        | 36<br>37 | Good<br>Well, no substit           | 5 +            | 1                                    |             |              |                               |            |                               |      |              |                               |  |
|            | -      | 38       | Amazing                            | VS T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 39       | Its really good                    | S NT           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 40       | Pretty Ok but n                    | SD NT          |                                      |             |              |                               |            |                               |      |              |                               |  |
| 1          |        | 41       | Just OK                            | SS NT          |                                      |             |              |                               |            |                               |      |              |                               |  |
|            | -      | 42       | You can say nei                    |                |                                      |             |              |                               |            |                               |      |              |                               |  |
| <b>j</b>   | -      | 43<br>44 | Its alright<br>I like it. Its fant | SS NT          |                                      |             |              |                               |            |                               |      |              |                               |  |
|            | -      | 45       | Its good                           | VS T           |                                      |             |              |                               |            |                               |      |              |                               |  |
| )          |        | 46       | Yeah, its good e                   | s T            |                                      |             |              |                               |            |                               |      |              |                               |  |
| )          |        | 47       | Well Ok                            | SS NT          | 5                                    |             |              |                               |            |                               |      |              |                               |  |
|            |        | 48       | Its very rewards                   | VS NT          | 2                                    |             |              |                               |            |                               |      |              |                               |  |
| Λ          |        | 49       | Good                               | S T            | -                                    |             |              |                               |            |                               |      |              |                               |  |
|            | FEMALE | 50<br>51 | Ok<br>Fine                         | N NT<br>SS NT  |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 51<br>52 | Ok                                 | SS NT          |                                      |             |              |                               |            |                               |      |              |                               |  |
| )          |        | 53       | Excellent                          | VS NT          |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 54       | Fine                               | SS NT          |                                      |             |              |                               |            |                               |      |              |                               |  |
|            | -      | 55       | Good                               | S NT           |                                      |             |              |                               |            |                               |      |              |                               |  |
| 1          |        | 56       | Great                              | VS T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 57<br>58 | Great<br>Great                     | VS T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            | -      | 58       | Good                               | VS T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 60       | Good                               |                |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 61       | Nice                               | SS T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 62       | Great                              | VS T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 63       | Great                              | VS T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            | _      | 64       | Great                              | VS T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 65<br>66 | Good<br>Good                       | S NT           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 65       | Good                               | S NT           | -                                    |             |              |                               |            |                               |      |              |                               |  |
| l.         |        | 68       | Great                              | VS NT          |                                      |             |              |                               |            |                               |      |              |                               |  |
| I          | -      | 69       | Great                              | VS T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            | -      | 70       | Ok                                 | N NT           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 71       | Excellent<br>Good                  | VS T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 72<br>73 | Amazing                            | S NT           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            | FEMALE | 74       | Yeah. I like it                    | S NT           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        |          | Its been high rev                  | VS T           | <u>.</u>                             |             |              |                               |            |                               |      |              |                               |  |
|            |        | 76       | Tiring. Its gettin                 | VD T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            | -      | 77       | Good                               | S NT           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 78       | I like it. Its fant                |                |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 79<br>80 | Getting bored<br>Bored             | VD NT<br>VD NT |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 80       | OK. It is so so.                   | SD T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 82       | Never bored of                     | SS NT          |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 83       | Ok. I am not to                    | N T            |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 84       | Teaching itself i                  | SD T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            | -      | 85       | Its always chan                    |                |                                      |             |              |                               |            |                               |      |              |                               |  |
|            | -      | 86       | Awful<br>Lorro it                  | D NT           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            | -      | 87<br>88 | Love it<br>I really like it. E     | VS T           | -                                    |             |              |                               |            |                               |      |              |                               |  |
|            |        | 88       | A bit dsiappoin                    | SD T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 90       | Its never boring                   | VS NT          |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 91       | I am very happy                    | VS T           |                                      |             |              |                               |            |                               |      |              |                               |  |
|            |        | 92       | I am fine. I wou                   | S NT           |                                      |             |              |                               |            |                               |      |              |                               |  |
| I          |        | 93       | I love it that's w                 |                |                                      |             |              |                               |            |                               |      |              |                               |  |
| l<br>i     |        |          | Just OK                            | SS T           |                                      |             |              |                               |            |                               |      |              |                               |  |
| l<br>i     |        | 94       | Good                               |                |                                      |             |              |                               |            |                               |      |              |                               |  |
| <br>;<br>) |        | 95       | Good<br>Its good                   | S NT           |                                      |             |              |                               |            |                               |      |              |                               |  |
| <br>;<br>) |        | 95<br>96 | Its good                           | S NT           |                                      |             |              |                               |            |                               |      |              |                               |  |
| <br>;<br>) |        | 95       |                                    | S NT           |                                      |             |              |                               |            |                               |      |              |                               |  |

|                                |                                  | What do you like most about this job role and why?  |                    |                    |  |              |              | OVERALL                            |      | FEMALE                                     |         |          | MALE                               |          |
|--------------------------------|----------------------------------|---|--------------------|--------------------|--|--------------|--------------|------------------------------------|------|--|---------|----------|------------------------------------|----------|
|                                | ALE                              | Responses   | FE                 | -                  | Themes<br>Flexible Environment             | Letter code  | e            | Statisitc                          |      | Statisitc                                  |         |          | Statisitc                          |          |
| IM                             | ALE 1                            | Flexible Environment. There is no pressure. Previous job was way<br>Course structure. It is set pattern. I like such stable routine   | FE                 | -                  | Structural Pattern                         | FE           |              | Frequency<br>Flexible Environment  | 16   | Frequency<br>Flexible Environment          | 10      | -        | Frequency<br>Flexible Environment  |          |
|                                | 3                                | Interacting with students. Able to learn more   |                    |                    | Interacting & Communic                     | IC           |              | Structural Pattern                 | 24   | Structural Pattern                         | 10      |          | Structural Pattern                 | 14       |
|                                | 4                                | Teaching. Increase my learning  | KL                 | T                  | Expanding Knowledge an                     | KL           |              | Interacting & Communicating        | 25   | Interacting & Communi-                     |         |          | Interacting & Communi-             |          |
|                                | 5                                | Plain and simplicity. I do not like complex things  | SP                 | т                  | Creativity                                 | C            |              | Expanding Knowledge and Learning   | 19   | Expanding Knowledge a                      |         |          | Expanding Knowledge a              |          |
|                                | 6                                | Opportunity to meet people. I like interactions   |                    |                    | Variety                                    | v            |              | Creativity                         | 9    | Creativity                                 | 4       |          | Creativity                         |          |
|                                | 7                                | Opportunity to meet people. I like interactions<br>Flexible Style and Social Environment. It gives me a peace of mind   | FE                 | т                  |  |              |              | Variety                            | 5    | Variety                                    | з       |          | Variety                            |          |
| ۰L                             | 8                                | Teaching itself. Experience of meeting and communicating. I am a  | 10,                |                    |  |              |              | Total                              | 98   | Total                                      | 49      |          | Total                              | 4        |
|                                | 9                                | Communicating thoughts. Through Communication knowledge exp   | SP                 | Т                  |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 10                               | Everything but it is a stable work. No rushing. It suits myself, my   | SP                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                |                                  | Relaxed work. There is no pressure, no changes  | FE                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 13                               |   | SP                 | NT                 |  |              | Non-teaching |                                    |      |  |         |          | 2577.27                            |          |
|                                | 10                               | Structural work. All is good in it. One pattern, one approach, no c   | SP                 | NT<br>NT           | Flexible Environment<br>Structural Pattern | 7            | 9            | OVERALL                            |      | FEMALE                                     |         |          | MALE                               |          |
|                                | 14                               | Routine work. I am a person who prefers to do same things. I don<br>Routine work. It set pattern, daily work, no fluctuation  | SP                 | NI                 | Interacting & Communic                     | 5            | 10           | Proportion<br>Flexible Environment | 1.04 | Proportion<br>Flexible Environment         | 20%     |          | Proportion<br>Flexible Environment | 12       |
|                                | 16                               | Opportunity to educate others. It gives me satisfaction to educate  | KI                 | T                  | Expanding Knowledge an                     | 14           | 3            | Structural Pattern                 | 2496 | Structural Pattern                         | 20%     |          | Structural Pattern                 | 29       |
|                                | 1                                | Everything. Contributing to knowledge. Self satisfaction  | KL                 | NT                 | Creativity                                 | 6            | 3            | Interacting & Communicating        | 26%  | Interacting & Communi-                     |         |          | Interacting & Communi-             |          |
|                                | 16                               | I like a lot of aspects. Now I like the structural work but before m  | SP                 | NT                 | Variety                                    | 1            | 4            | Expanding Knowledge and Learning   | 19%  | Expanding Knowledge a                      |         |          | Expanding Knowledge a              |          |
| 1                              | 19                               | Creativity is something I admire. I feel I can do it all day long   | C                  | Т                  | Total                                      | 49           | 49           | Creativity                         | 9%   | Creativity                                 | 896     |          | Creativity                         | 10       |
|                                | 20                               | I like doing different things. Trying different things doesn't let me   | V.                 | Т                  | Grand Total Respondents                    | 98           |              | Variety                            | 596  | Variety                                    | 6%      |          | Variety                            | 4        |
|                                | 2:                               | Routine tasks. I don't like changes   | SP                 | NT                 |  |              |              | Total                              | 100% | Total                                      | 100%    |          | Total                              | 100      |
|                                | 23                               | Structural work. Changes ususally irritates me  | SP                 | NT                 |  | -2010-2010-0 |              |                                    |      |  |         |          |                                    |          |
|                                | 23                               | Communicating with students. I feel like I am helpin them. This i   | IC                 | NT                 |  |              | Non-teaching |                                    |      | -  | Male    | Female   |                                    |          |
|                                | 24                               | Flexible environment. There is no pressure. We work as a team<br>Flexible environment   | FE                 | NT<br>T            | Flexible Environment<br>Structural Pattern | 14%<br>10%   | 18%<br>41%   |                                    |      | Flexible Environment<br>Structural Pattern | 6<br>14 | 10<br>10 | Г                                  | <u> </u> |
| D.                             | ALE 24                           | It's really about interacting by helping students to achieve goals. S   | 10                 | +                  | Interacting & Communic                     | 29%          | 20%          |                                    |      | Interacting & Communi                      |         | 10       | -                                  |          |
| -                              | 25                               | Interacting and helping people to improve life  | IC                 | NT                 | Expanding Knowledge an                     | 33%          | 6%           |                                    |      | Expanding Knowledge a                      |         | 9        |                                    |          |
|                                | 28                               | Interacting with people. It does not stop you at one point in life.   | 10                 | Ť                  | Creativity                                 | 12%          | 6%           |                                    |      | Creativity                                 | 5       | 4        |                                    |          |
|                                | 25                               | I like interacting with people. Between students and Academics I  | IC                 | NT                 | Variety                                    | 296          | 8%           |                                    |      | Variety                                    | 2       | з        |                                    |          |
|                                | 30                               | Creativity. Sharing my experiences with others.   | C                  | Т                  | Total                                      | 100%         | 100%         |                                    |      | Total                                      | 49      | 49       |                                    |          |
|                                | 3:                               | My Team I like with them. Its routine work. I like work on daily  | SP                 | NT                 |  |              |              |                                    |      | Grand Total                                | 98      |          |                                    |          |
|                                | 32                               | There is growth in it. I like interacting with others   | IC                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
| - 1                            | 33                               | People here. My team. Very helpful and encouraging. Make it eas<br>Space to breath. Creativity and autonomy in the research. There is   | FE                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
| )                              | 34                               | <ul> <li>Space to breath. Creativity and autonomy in the research. There is<br/>Interacting and communicating with students</li> </ul>  | C<br>IC            | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 31                               | Meeting new students. Getting chance to expand my knowledge.  | KL.                | T                  |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 33                               | Student contact. Communicate and listen to their ideas  |                    |                    | 1  |              |              |                                    |      |  |         |          |                                    |          |
| (                              | 38                               | Teaching and Research. Expanding knowledge. Occassionally I like  | KL                 | T                  |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 39                               | Variety of work. It keeps me on toe   | v                  | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 40                               | Working in different areas. It gives me more creativity   | С                  | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
| J                              | 4:                               | Structural Work. I do not like changes  | SP                 | NT                 | <u></u>                                    |              |              |                                    |      |  |         |          |                                    |          |
|                                | - 45                             | Creativity, trying new experiments. I get bored to structural and f   | с                  | т                  |  |              |              |                                    |      |  |         |          |                                    |          |
| 6 -                            | 43                               | It's a joy sharing knowledge. I like helping my team, especially ne   | KL                 | NT                 | -  |              |              |                                    |      |  |         |          |                                    |          |
| )                              | 44                               | Interacting to give knowledge. Important for me is giving out infor<br>Distributing knowledge   | *L                 | 1                  |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | -                                | Intellectual activities. Sharing Knowledge  | XI.                | -                  |  |              |              |                                    |      |  |         |          |                                    |          |
| 0                              | 47                               | Routine work. I hate changes. I like to work on same pattern  | SP                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
| ٨                              | 48                               | I enjoy working directly with the students and academics. Its real  | IC                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
| "                              | 45                               | Obviously knowledge sharing   | KL                 | T                  | -  |              |              |                                    |      |  |         |          |                                    |          |
| FE                             | MAL 50                           | Doing something new. I like new things so I am not bored  | С                  | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 50                               | Engagement with others. It gives me something new to learn  | KL                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 52                               | Healthy Environment. There is no work pressure  | FE                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
| >                              | 53                               | Structural work. I like things in order   | SP                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                |                                  | Diversity. A chance to do different things  | С                  | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
| 4                              | 55                               | Structural work. All patternized and organized  | SP                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 56                               | Everything. I usually like new things. It gives me a creativity, char   | C                  | T                  |  |              |              |                                    |      |  |         |          |                                    |          |
| ( -                            | 5.                               | Job itself. Flexible hours, communicating. Flexible hours the most<br>Interacting with students. Opportunity to communicate ideas. Ide  | FE                 | Т                  |  |              |              |                                    |      |  |         |          |                                    |          |
| •                              | 50                               | Specific content to teach. I hate changes. Sticking to same theme h   | CD                 | т                  |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | - 60                             | A chance to gain knowledge. I receive information. In this, I am up   | KT                 | Ŧ                  |  |              |              |                                    |      |  |         |          |                                    |          |
| 22.5                           | 63                               | Inspiring others. Improving their lives. I am a social person. I love   | FE                 | T                  |  |              |              |                                    |      |  |         |          |                                    |          |
| ;                              |                                  | Flexible Environment. Peaceful environment gives me positive tho  | FE                 | т                  |  |              |              |                                    |      |  |         |          |                                    |          |
| ,                              | 63                               | Interacting with students. My interest always been to improve of  |                    |                    |  |              |              |                                    |      |  |         |          |                                    |          |
| -                              | 64                               |   | 10                 | T                  |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 65                               | There are many things but in these four years best feature of my  | SP                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 66                               | Flexible environment. No work pressure  | FE                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
| •                              | 67                               | Structural work. No one like too much fluctuation or changes  | SP                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                |                                  | 3 Definitely flexible environment. There is no pressure on us. We we<br>Interacting with students and intellectual people. We exchange ide  | PE IC              | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
| 1                              | 70                               |   | SP                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                |                                  | Flexible environment. Limited load  | FE                 | т                  |  |              |              |                                    |      |  |         |          |                                    |          |
|                                |                                  | Doing daily work. Same patternized work   | SP                 | NT                 | ×  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 7:                               | Interaction and chances of communicating with students  | 10                 |                    |  |              |              |                                    |      |  |         |          |                                    |          |
| FE                             | MAL 74                           | Dealing with students. I am into customer services for long and I l   | IC                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 75                               | Enabling and empowering students to reach their potential through   | KL                 | т                  | -  |              |              |                                    |      |  |         |          |                                    |          |
| 1                              | 76                               | Giving knowledge. I feel I am improving by doing so   | KL.                | т                  |  |              |              |                                    |      |  |         |          |                                    |          |
| -                              |                                  | Recruiting. It gives me a chance to do something different  | ×                  | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
| -                              | 78                               |   | 57                 | NT.                |  |              |              |                                    |      |  |         |          |                                    |          |
| T -                            | 80                               |   | FE                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                |                                  | Routine task. On daily basis I know what to do. No changes in an<br>Routine task. 9 to 5 help my way. I can live my life easily once I  | SP                 | T                  |  |              |              |                                    |      |  |         |          |                                    |          |
| -                              | 82                               | Interacting with students. That's is what I am here for and I enjoy   | IC                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
| i –                            |                                  | I like research work. I make contribution to other individuals. Give  | KL                 | T                  |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 84                               | Interacting with others. It gives me a chance to know others and m  |                    |                    |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 85                               | One thing. I teach and I am committed to it. I give knowledge.  | .KL                | т                  | 2.   |              |              |                                    |      |  |         |          |                                    |          |
|                                | 86                               | Interacting with colleagues and students  | IC                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 87                               | Interacting with students because I fel evryone has right to earn ed  | 10                 |                    |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 88                               | I am in customer services but the relaxed encironment is anabling r   | FE                 | NT                 | ·  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 89                               | Intellectual engagement with students. It increases knowledge dim   | KL                 | Ŧ                  | -  |              |              |                                    |      |  |         |          |                                    |          |
|                                |                                  | Freedom of information. There is variety of work. You can affect  | N.                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                |                                  | I like to do research. Expands my knowledge   | KL                 | T                  |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 91                               |   | SP                 | NT                 |  |              |              |                                    |      |  |         |          |                                    |          |
|                                | 93<br>93                         | Making students' life better by giving them support. There is poli  |                    |                    |  |              |              |                                    |      |  |         |          |                                    |          |
| 1                              | 91<br>92<br>93                   | I like when any student achieve something great. I talk to my stud  | KL                 | т                  |  |              |              |                                    |      |  |         |          |                                    |          |
| (<br> <br> <br> <br> <br> <br> | 91<br>92<br>93<br>94             | I like when any student achieve something great. I talk to my stud<br>I have routine style of teaching. I want creativity. I love doing son   | KL<br>C            | T<br>T             |  |              |              |                                    |      |  |         |          |                                    |          |
| <br> <br> <br>                 | 93<br>93<br>94<br>95             | <ol> <li>I like when any student achieve something great. I talk to my stud</li> <li>I have routine style of teaching. I want creativity. I love doing son</li> <li>Working in team because it makes day faster. Sharing information</li> </ol>                   | KL<br>C<br>FE      | T<br>T<br>NT       | 1  |              |              |                                    |      |  |         |          |                                    |          |
| <br>  <br>                     | 91<br>91<br>91<br>94<br>94<br>99 | I like when any student achieve something great. I talk to my stud<br>I have routine style of teaching. I want creativity. I love doing son<br>Working in team because it makes day faster. Sharing information<br>I have recently change my role. I like changes | KL<br>C            | T<br>T<br>NT<br>NT |  |              |              |                                    |      |  |         |          |                                    |          |
| <br> <br> <br>                 | 93<br>93<br>94<br>99<br>99<br>99 | <ol> <li>I like when any student achieve something great. I talk to my stud</li> <li>I have routine style of teaching. I want creativity. I love doing son</li> <li>Working in team because it makes day faster. Sharing information</li> </ol>                   | KL<br>C<br>FE<br>V | T<br>T             |  |              |              |                                    |      |  |         |          |                                    |          |

|                 | Is there anything you do not like about this job role and why?<br>Responses   |   |   | Themes                  | Letter c | ode       | Statisito                     |       | Statisito   |            |        | Statisite  |            |
|-----------------|---|---|---|-------------------------|----------|-----------|-------------------------------|-------|---|------------|--------|--|------------|
| MALE            |   | CS  | T   | Conventional structure  | CS       |           | Frequency                     |       | Frequency   |            |        | Frequency  |            |
|                 | 2 Changes in outline. It disturbs my routine  | С   | Т   | Changes                 | C        |           | Conventional structure        |       | Conventional structure  | 10         |        | Conventional structure   | 11         |
|                 | 3 Workload. I am teaching and sometime looking after other works  | W   | Т   | Workload                | W        |           | Changes                       | 11    | Changes   | 6          |        | Changes  | 5          |
|                 | 4 In job role nothing but travelling too much is but annoying. I have health issu   |   | т   | External Factors        | EF       |           | Workload                      | 20    | Workload  | 9          |        | Workload   | 11         |
| ))              | 5 Changing and chopping. External factors also like rain, structural etc.   | С   | Т   | Long working hours      | L        |           | External Factors              | 18    | External Factors  | 9          |        | External Factors   | 9          |
|                 | 6 Not any such thing but travelling is a bit of concern. I am aging and its difficu   | EF  | T   | Nothing                 | N        |           | Long working hours            | 22    | Long working hours  | 10         |        | Long working hours   | 12         |
|                 | 7 Not exactly, I can think of anything but my health is distrubed due to late sit   |   |   |                         |          |           | Nothing                       | 6     | and the second se | 5          |        | Nothing  | 1          |
| ÷               | 8 Long hours. Travel takes my too much times  |   |   |                         |          |           | Total                         | 98    | Total   | 49         |        | Total  | 49         |
|                 | 3 Long working hours. It takes me almost 3 hours daily and some time more th  |   |   |                         |          |           |                               |       |   |            |        |  |            |
|                 | 10 It has so much complication. Red tapism. For each thing, one long process is   |   | NT  |                         |          |           |                               |       |   |            |        |  |            |
|                 | 11 Too much rigidity in process. Like sometimes a file has to go from one desk  |   | NT  |                         |          |           |                               |       |   |            |        |  |            |
|                 | 12 Long hours. I have backage issue.  | L   | NT  |                         | Teaching | on-teachi | OVERALL                       |       |   |            |        |  |            |
|                 | 13 Excessive workload. It's a state of anxiety. At time like in specific month we   | W   | NT  | Conventional structure  | 12       | 9         | Proportion                    |       | FEMALE  |            |        | MALE   |            |
|                 | 14 Changes Like new head asking for change in work pattern  | С   | NT  | Changes                 | 4        | 7         | Conventional structure        | e 21% | Proportion  |            |        | Proportion   |            |
|                 | 15 High workload. I am alone and there is over burden   | 14  | NT  | Workload                | 9        | 11        | Changes                       | 11%   | Conventional structure  | 20%        |        | Conventional structure   | 22%        |
| -               |   |   |   | Contraction Contraction |          | 10        |                               |       |   |            |        | and the second sec |            |
|                 | 16 Not directly but I see there are hurdles. Too much hierarchy. It delays work. I  | CS  |   | External Factors        | 8        | 10        | Workload<br>External Factors  | 20%   | Changes<br>Workload   | 12%<br>18% |        | Changes  | 10%        |
|                 | 17 Long hours. My health nowadays disturbed so I is quite problematic   | -   | INT   | Long working hours      | 12       | 2         | External Factors              |       |   | 18%        |        | Workload   | 22%        |
| •               | 18 Rigid policies. High dependence on others for small things   | 00  | NI<br>T   | Nothing                 | 49       | 49        | Long working hours<br>Nothing | 22%   | External Factors<br>Long working hours  | 20%        | -      | External Factors   | 18%<br>24% |
| 21              | 19 Too much restricted ways of teaching subjects. Same pattern, same assessmen<br>20 Many things but mostly orthodox way of teaching. High restrictions on tryin  | 00  | -   | Grand Total Responde    |          | 43        | Total                         | 100%  | Nothing   | 10%        | -      | Nothing  | 24/.       |
|                 | 21 Workload   | 0.0   | NT  | Grand Total Responde    | . 30     |           | Total                         | 1007. | Total   | 100%       | -      | Total  | 100%       |
| -               | 22 Changes of any type  | Č.  | NT  | -                       |          |           |                               |       | TOCAL   | 100%       |        | rotai  | 1007.      |
|                 | 23 Long working hours. The city situation is also not good so staying away for la   | -   | NT  |                         |          |           |                               |       |   |            |        |  |            |
|                 | 24 Nothing. I am absolutely fine with all   | N.  | NT  |                         | Teaching | on-teachi | na                            |       |   | Male       | Female |  |            |
|                 | 25 Long hours. It exhaust me  |   |   | Conventional structure  | 24%      | 18%       | ng                            |       | Conventional structure  | 11         | 10     |  |            |
| MALE            |   | W   | Т   | Changes                 | 8%       | 14%       |                               |       | Changes   | 5          | 6      |  |            |
| )               | 27 I am a research person. Its here management role. I feel like too much of my   | EF  | NT  | Workload                | 18%      | 22%       |                               |       | Workload  | 11         | 9      |  |            |
| J               | 28 Office Politics. I don't feel comfortable in such situations. Came here to make  | EF  | Т   | External Factors        | 16%      | 20%       |                               |       | External Factors  | 9          | 9      |  |            |
|                 | 29 Long hours. The bad thing is I have to work for too long. Its very time con  | . L.  | NT  | Long working hours      | 24%      | 20%       |                               |       | Long working hours  | 12         | 10     |  |            |
|                 | 30 Excessive workload. I am managing too many things together   | W   | Т   | Nothing                 | 8%       | 4%        |                               |       | Nothing   | 1          | 5      |  |            |
|                 | 31 Workload. Too much pressure. Everytime I am moving arround. If you notic   | W   | NT  | Total                   | 100%     | 100%      |                               |       | Total   | 49         | 49     |  |            |
|                 | 32 Change happen quite often  | С   | NT  |                         |          |           |                               |       | Grand total   | 98         |        |  |            |
| E               | 33 Many such as constant change, Lack of staff and at times heavy workload. By  |   | NT  |                         |          |           |                               |       |   |            |        |  |            |
|                 | 34 I would say very very limited opportunities to move up in comparison to ind  | EF  | Т   |                         |          |           |                               |       |   |            |        |  |            |
| )               | 35 Too much other factors like coming from far away   | EF  | NT  |                         |          |           |                               |       |   |            |        |  |            |
|                 | 36 I think moving to online. Making too much severe. Less paper work. I am a  | EF  | Т   |                         |          |           |                               |       |   |            |        |  |            |
|                 | 37 Red tapism. Bureaucracy. Following specific structure to make things in one p  | CS  | Т   |                         |          |           |                               |       |   |            |        |  |            |
| <               | 38 Marking scripts. Structuring reports. I can't read writing, especially internatio  | EF  | Т   | 2                       |          |           |                               |       |   |            |        |  |            |
|                 | 39 Workload. Too high   | W   | NT  |                         |          |           |                               |       |   |            |        |  |            |
|                 | 40 May be dealing with something for too long.  | L.  | NT  |                         |          |           |                               |       |   |            |        |  |            |
| J               | 41 Long hours.  | - L   | NT  |                         |          |           |                               |       |   |            |        |  |            |
|                 | 42 Too much fixed procedures. When I am not allowed to work my way. I simpl   | CS  | T   |                         |          |           |                               |       |   |            |        |  |            |
| i               | 43 Marking and grading. I hate it. Making reports. I usually give them to others  | EF  | NT  | -                       |          |           |                               |       |   |            |        |  |            |
|                 | 44 Workload. Four intakes non-stop. Last week, old batch finished and now I an  | W   | Т   |                         |          |           |                               |       |   |            |        |  |            |
| )               | 45 Downside to teaching is that, it is fairly routine. So at times, it bores me   | US  | 1   |                         |          |           |                               |       |   |            |        |  |            |
| <b>.</b>        | 46 Admin work. It is additional burden. Sometimes it stress me. Like I said, extra  | W   |   |                         |          |           |                               |       |   |            |        |  |            |
| -               | 47 Sitting for very long  | -   | NI CONTRACTOR   |                         |          |           |                               |       |   |            |        |  |            |
| Λ               | 48 There is a lot of bureaucracy. Its difficult to work with those constraints.   |   |   | 1                       |          |           |                               |       |   |            |        |  |            |
| TTMA            | 49 Long working hours<br>50 Too much dependence on others. Dependent things are delayed unnecessarily   |   | NT  |                         |          |           |                               |       |   |            |        |  |            |
| TEMA            | 50 100 much dependence on others. Dependent things are delayed unnecessarily  | EF  | NT  |                         |          |           |                               |       |   |            |        |  |            |
|                 | 51 Not in iob but the uncertainty in city is obstacle. I have family so if I am stuc<br>52 Many but mostly lengthy procedures. In each step, all approvals would follow   | OS.   | NT  |                         |          |           |                               |       |   |            |        |  |            |
| <b>D</b>        | 53 Long working hours sometimes annoy me because I have to travel far away  | 1   | NT  |                         |          |           |                               |       |   |            |        |  |            |
| 1               | 54 Same too much over workload due to diversity   | Ŵ   | NT  | 1                       |          |           |                               |       |   |            |        |  |            |
|                 | 55 Too much burden. There is a lot of burden. I find less time for my family  | Ŵ   | NT  |                         |          |           |                               |       |   |            |        |  |            |
| 4               | 56 Conventional structure. I like experimenting but this job bounds me to certain   | CS  | T   | 1                       |          |           |                               |       |   |            |        |  |            |
|                 | 57 Nothing that I recall but its too much time taking work  | N   | T   |                         |          |           |                               |       |   |            |        |  |            |
| (               | 58 Unnecessary rigid structure. Same modules, same way of assessing. I want prac  | CS  | T   |                         |          |           |                               |       |   |            |        |  |            |
|                 | 59 Change in course structure or timing. Usually I prefer to be home by 6 PM be   |   | Т   | 1                       |          |           |                               |       |   |            |        |  |            |
| 1               | 60 Structural and traditional pattern. I want experimentation so I and students do  |   | т   |                         |          |           |                               |       |   |            |        |  |            |
|                 | 61 Nothing. I am happy with it  | N   | т   | -                       |          |           |                               |       |   |            |        |  |            |
|                 | 62 Nothing. I like all aspects of my job. The challenges bring best out of me   | N   | т   |                         |          |           |                               |       |   |            |        |  |            |
| >               | 63 Long working hours. I feel tired due to excessive workload and prolonged wor   | E.  | T   |                         |          |           |                               |       |   |            |        |  |            |
| 1 C             | 64 Nothing but it is hectic. I have to manage all   | W   | Т   | 121                     |          |           |                               |       |   |            |        |  |            |
|                 | 65 Like I said external factors causes stress. Especially in chaos, if something ha   | EF  | NT  |                         |          |           |                               |       |   |            |        |  |            |
|                 | 66 Changes. Usually when they are shuffling up schedules  | С   | NT  |                         |          |           |                               |       |   |            |        |  |            |
| 1               | 67 Changes  | С   | NT  | 1                       |          |           |                               |       |   |            |        |  |            |
|                 | 68 Nothing  |   |   |                         |          |           |                               |       |   |            |        |  |            |
|                 |   |   | T   |                         |          |           |                               |       |   |            |        |  |            |
|                 | 69 Long working hours sometimes. Especially, evening clases starting late 6 to 9  | 1.0   |   |                         |          |           |                               |       |   |            |        |  |            |
| J               | 70 Workload. I have to manage both my family and work. Its hectic   | Ŵ   | NT  |                         |          |           |                               |       |   |            |        |  |            |
| V               | 70 Workload. I have to manage both my family and work. Its hectic<br>71 Nothing. There is nothing I don't like  | W<br>N  | NT<br>T   |                         |          |           |                               |       |   |            |        |  |            |
| N               | <ol> <li>Workload. I have to manage both my family and work. Its hectic</li> <li>Nothing. There is nothing I don't like</li> <li>Long hours</li> </ol>  |   |   |                         |          |           |                               |       |   |            |        |  |            |
|                 | 70 Workload. I have to manage both my family and work. Its hectic<br>71 Nothing. There is nothing I don't like<br>72 Long hours<br>73 Rigid structure. When I have to follow routine patterns   | N<br>L<br>CS  | T<br>NT<br>T  | 1                       |          |           |                               |       |   |            |        |  |            |
|                 | 10         Workload. I have to manage both my family and work. Its heetic           17         Nothing. These is nothing I don't like           12         Long hours           73         Right structure. When I have to follow routine patterns           174         Not structure works have some changes taking place. I might not like if  | N<br>L<br>CS  |   |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10 Workload. Have to manage both my family and work. Its hectic<br>71 Nothing, These is nothing I don't like<br>72 Long hours<br>73 Rigid structure. When I have to follow routine patterns<br>174 Not exactly much but these are some changes taking place. I might not like if<br>75 Long working hours. I get tried  | N<br>L<br>CS  | T<br>NT<br>T  |                         |          |           |                               |       |   |            |        |  |            |
|                 | 70 Workload. I have to manage both my family and work. Its hectic           71 Nothing. These is nothing I don't like           72 Long hours           73 Right structure. When I have to follow routine patterns           74 Not acatly much but these are some changes taking place. I might not like if           75 Long working hours. 1 get tird           76 Long working hours. 1 find no time for my family  | N<br>CS<br>C<br>L   | T<br>NT<br>T<br>NT  |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10 Workload. Have to manage both my family and work. Its hestic<br>71 Nothing, These is nothing I don't like<br>72 Long hours<br>73 Rigid structure. When I have to follow routine patterns<br>174 Not exactly much but these are some changes taking place. I might not like it<br>75 Long working hours. I get tried<br>76 Long hours. I find no time for my family<br>77 When student like and I have to follow routine work. I can't do anything about<br>70 When student like and I have to follow routine work. I can't do anything about   | N<br>CS<br>C<br>L   | T<br>NT<br>T  |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10 Workload. I have to manage both my family and work. Its hectic           17 Nothing. There is nothing I don't like           12 Long hours           13 Rigid structure. When I have to follow routine patterns           14 Not start, structure is the structure and the structure is the structure. I find not implement the structure is th | N L<br>CS<br>L<br>L<br>CS<br>L  | T<br>NT<br>T<br>NT<br>T<br>NT   |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. Have to manage both my family and work. Its heetic           11         Nothing. These is nothing I don't like           12         Raid attractures. When I have to follow rootine patterns           13         Raid attractures. When I have to follow rootine patterns           14         Not exactly much but there are some changes taking place. I might not like if           15         Long works in place. I get tried           16         Long hears. I find no time for my family.           17         When student like and 1 have to follow rootine work. I can't do anything abor.           18         Long hears. I have limited time for my family.           19         Workload.  | N L CS<br>C L L<br>CS<br>L L<br>S<br>L L<br>S<br>L L<br>V   | T<br>NT<br>T<br>NT<br>T<br>NT<br>NT   |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. I have to manage both my family and work. Its hectic           17         Nothing. These is nothing I don't like           12         Engl structures. When I have to follow routine patterns           13         Ridd structures. When I have to follow routine patterns           14         Not exactly much but there are some changes taking place. I might not like if           15         Long working hours. I get tirsd           16         Long hours. I find no time for my family           17         When students like and I have to follow routine work. I can't do anything abor           18         Long hours. I have limited time for my family           19         Workload           00         Its not flexible. 9-to-5 Can't move from my deak for long   | N L CS<br>C L L<br>CS<br>L L<br>S<br>L<br>V<br>V<br>V<br>V  | T<br>NT<br>T<br>NT<br>T<br>NT   |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. I have to manage both my family and work. Its hestic           17         Nothing, These is nothing I don't like           13         Rigid structures. When I have to follow rootine patterns           14         Not exactly much but there are some changes taking place. I might not like if           15         Long working hown. I get tried           16         Long hown. I find no time for my family.           17         When student like and 1 have to follow rootine work. I can't do anything abor.           18         Long hown. I find no time for my family.           17         When student like and 1 have to follow rootine work. I can't do anything abor.           18         Long hown. I have limited time for my family.           19         Workload.           10         In on thankle. 9-to-5 Can't move from my deak for long.           10         14 time, it's streaful. This havery workload   |   | T<br>NT<br>T<br>NT<br>T<br>NT<br>NT<br>NT<br>T                                      |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. I have to manage both my family and work. Its hectic           11         Nothing, These is nothing I don't like           12         Raid structure. When I have to follow routine patterns           14         Not exactly much but these are some changes taking place. I might not like it           15         Long working hours. I get tird           16         Long hours. I find no time for my family           17         When students lie and I have to follow routine work. I can't do anything about           18         Long hours. I have limited times for my family           17         Workload           18         Long hours. I have limited times for my maily           19         Workload           10         It not flexible. 9-40-5 Can't move from my deak for long           18         At times, it's streamful. Its hoary workload           20         Change is good but not them is too offen because it's creating over workload   | N L CS<br>C L L<br>CS<br>L L<br>S<br>L<br>V<br>V<br>V<br>V  | T<br>NT<br>T<br>NT<br>T<br>NT<br>NT   |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. Have to manage both my family and work. Its bactic           17         Nothing These is nothing I don't like           13         Rigid structures. When I have to follow routine patterns           14         Hot exactly much but there are some changes taking place. I might not like it           15         Long working boost. J get thread           16         Long hours. I find no time for my family.           17         When student like and 1 have to follow routine work. I can't do anything abor.           18         Long workshile is and 1 have to follow routine work. I can't do anything abor.           19         Workload.           10         Inton theside. 9-to-5 Can't move from my desk for long           10         14         Hires, it's trendil. It haven y workload           10         Change is good but not when its too often because it's creating over workload           16         Change senser form government. The policies of the povernment it chan't can't any any can't can't can't any it's can't can't any any can't can't can't any any can't can't can't can't any can't can't can't any can't can't can't can't any can't can't can't can't any can't can't can't can't can't can't any can't   | N<br>CS<br>C<br>L<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS                   | T<br>NT<br>T<br>NT<br>T<br>NT<br>NT<br>T<br>NT<br>T                                 |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. Have to summage both my family and work. Its heetic           17         Nothing, These is nothing I don't like           12         Rigid structure. When I have to follow routine patterns           14         Not structly much but there are some changes taking place. I might not like it           15         Long hours. I find no time for my family           17         When students like and I have to follow routine work. I can't do anything abor           18         Long hours. I find no time for my family           17         When students like and I have to follow routine work. I can't do anything abor           18         Long hours. I have limited time for my family           18         Long hours. I have limited time for my family           19         Long hours. I have limited time for my family           10         In not fixelike. Jave limited time for my family           20         Long hours. I strength. Its haven workload           20         Change is good to not when its to o often because it's creating over workload           20         Administrative bode. It is extra workload           30         Administrative bode.  | N<br>CS<br>C<br>L<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS                   | T<br>NT<br>T<br>NT<br>T<br>NT<br>NT<br>T<br>NT<br>T<br>T                            |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. I have to manage both my family and work. Its hestic           17         Nothing, These is nothing I don't like           13         Rigid structures. When I have to follow routine patterns           14         Not exactly much but there are some changes taking place. I might not like if           15         Long working hows. I get it reid           16         Long moking hows. I, first to to follow routine work. I can't do anything abor           17         When stdeath is and 1 have to follow routine work. I can't do anything abor           18         Long working. The structure is for my family           19         Workload           10         In ton flaxible. 9-to-5 Can't move from my desk for long           11         Att itsnift, it's streadf. It havery workload           10         Change is good but not when its too often because it' creating over workload           16         Change is workload. It is extra workload           16         Unreliable environment. To policies of the povernment it chan           16         Unreliable environment. To many changes in the policies, procedures.   | N<br>L<br>CS<br>L<br>CS<br>L<br>V<br>V<br>V<br>C<br>EF<br>C   | T<br>NT<br>T<br>NT<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>T                      |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. Have to manage both my family and work. Its heetic           17         Nothing, These is nothing I don't like           12         Right structures. When I have to follow routine patterns           14         Not exactly much but there are some changes taking place. I might not like it           15         Long works, I find no time for my family           16         Have its model in there are some changes taking place. I might not like it           16         Long hours, I find no time for my family           17         When students lis and I have to follow routine work. I can't do anything abor           16         Long hours, I find no time for my family           17         Workload           16         Long hours, I find no time for my family           17         Workload           16         Is not finknile. 9-to-5 Can't move from my desk for long           18         At ministrative borden. It is earts workload           18         Change is good but not when its to o offen because it's creating over workload           16         Administrative borden. It is earts workload           16         Administrative borden. It is earts workload           16         Marinistrative borden. It is earts workload           16         Marinistrative borden. It is earts workload           16         Maintistrati   | N<br>L<br>CS<br>C<br>L<br>CS<br>C<br>C<br>S<br>C<br>S<br>C<br>S<br>C<br>S<br>C<br>S<br>C<br>S<br>C                | T<br>NT<br>T<br>NT<br>T<br>NT<br>NT<br>T<br>NT<br>T<br>T                            |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. Have to manage both my family and work. Its bactic           17         Nothing, These is nothing I don't like           13         Rigid structures. When I have to follow routine patterns           14         How to exactly much but there are some changes taking place. I might not like if           15         Long working hows. I get thread           16         Long moking hows. I, find no time for my family           17         When student like and 1 have to follow routine work. I can't do anything abor           18         Long working hows. I, find no time for my family           17         When student like and 1 have you forlow my deak for long           10         11 anot flaxible. 9-to-5 Can't move from my deak for long           11         14 time, it's streadf. It havery workload           16         Change is good but not when its too often because it's creating over workload           16         Unrailable environment. Too policies of the povernment it chan 1           16         Unrailable environment. The solicies of the povernment it chan           16         Unrailable environment. Too many changes in the policies, procedures.           16         When I am not fairly treated by others. Lack of carser opportunities           17         Sometimes work pattern in process driven rather than student driven   | N<br>CS<br>C<br>L<br>CS<br>C<br>L<br>CS<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C                    | T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>T<br>T<br>NT<br>T<br>T<br>NT       |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. Have to summage both my family and work. Its heetic           17         Nothing, These is nothing I don't like           12         Rigid structure. When I have to follow routine patterns           14         Not exactly much but there are some changes taking place. I might not like it           15         Long working hows: I get tind           16         Long working hows: I get tind           17         When truther are some changes taking place. I might not like it           18         Long town: I find no time for my family           17         When truther are some form works work. I can't do anything abor           18         Long town: I have limited time for my family           18         Verklowd           19         Long town: I have limited time for my family           19         Kong town: I have limited time for my family           19         Kong town: I have limited time for my family           10         In not family trade II. Its heavy workload           20         Change is god but not when its too often because it's creating over workload           20         Changes, Pressure from government. The policies of the government is chan 4           21         Administrative bord. It is extra workload           20         When I am of fairly trade by others. Lack of career opportunities           20<  | N<br>L<br>CS<br>L<br>CS<br>L<br>V<br>V<br>C<br>EF<br>CS<br>EF<br>CS<br>EF   | T<br>NT<br>T<br>NT<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>T                      |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. Have to manage both my family and work. Its hestic           17         Nothing, These is nothing I don't like           13         Rigid structures. When I have to follow rootine patterns           14         Not exactly much but there are some changes taking place. I might not like if           15         Long working hown. I get tried           16         Long more. I find no time for my family.           17         When student like and 1 have to follow rootine work. I can't do anything abor.           18         Long working. I have to follow rootine work. I can't do anything abor.           19         Workload.           10         Inton thesils.           10         Into flaxible.           10         Attime, it's streadf. It haven workload           10         Than of having have more.           11         Attime, it's streadf. It haven workload           12         Change is good but not when its too often because it's creating over workload           13         Change is procedures.           16         Unreliable avricoment. Too many changes in the policies, procedures.           16         Stomestimes work pattern in process driven atthet than student driven           18         Perionality clashe.         Somestimes consectivent atthe consectivent. There is to ancertainty.           16  | N<br>L<br>CS<br>C<br>L<br>CS<br>L<br>CS<br>C<br>L<br>CS<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C                   | T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>T<br>NT<br>T<br>NT<br>T<br>NT      |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. Have to manage both my family and work. Its heetic           17         Nothing, These is nothing I don't like           12         Right structures. When I have to follow routine patterns           14         Not exactly much but there are some changes taking place. I might not like it           15         Long works, I find no time for my family           16         Have its model in the rear some changes taking place. I might not like it           17         When students lis and I have to follow routine work. I can't do anything abor           16         Long hours, I find no time for my family           17         When students lis and I have to follow routine work. I can't do anything abor           18         Long hours, I have limited time for my family           19         Workload         E hange hours it to offen because it's creating over workload           20         Change is good but not when its to offen because it's creating over workload           20         Changes, Pressure from government. The policies of the government it chant           21         Administrative borden. It is exit aw workload           26         When I am to fairly treated by others. Lack of carser opportunities           26         When I am to fairly treated by others. Lack of carser opportunities           28         Personality clashe. Sometimup sepoler aron to ites to I faisthoet at the is inpo </td <td>N<br/>L<br/>CS<br/>L<br/>CS<br/>L<br/>V<br/>V<br/>C<br/>EF<br/>CS<br/>EF<br/>CS<br/>EF</td> <td>T<br/>NT<br/>T<br/>NT<br/>T<br/>NT<br/>T<br/>NT<br/>T<br/>T<br/>T<br/>NT<br/>T<br/>T<br/>NT</td> <td></td>   | N<br>L<br>CS<br>L<br>CS<br>L<br>V<br>V<br>C<br>EF<br>CS<br>EF<br>CS<br>EF   | T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>T<br>T<br>NT<br>T<br>T<br>NT       |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. Have to manage both my family and work. Its hestic           17         Nothing, These is nothing I don't like           13         Rigid structures. When I have to follow routine patterns           14         Not exactly much but there are some changes taking place. I might not like if           15         Long working hown. I get thread           16         Long moking hown. I get thread           17         When student like and 1 have to follow routine work. I can't do anything abor           18         Long working hown. I get thread           19         Norking abor           19         Work student like and 1 have to follow routine work. I can't do anything abor           19         Workload           10         Into stift streadil. It haven workload           10         It at time, it is streadil. Tha haven workload           10         Thare survicement. To on many changes in the policies, procedures.           10         When I am ont fairly treated by others. Lack of carser opportanities           10         Stometimes work pattern in process driven rather than studet driven           19         Incanadit pays. I don't like numblike environment. The policies is of lifes bad           10         Incanadit pays. I don't like numblike environment. The policies of all bit the simpol           10         Incanadit pays. I don't like nu  | N<br>L<br>CS<br>L<br>CS<br>L<br>V<br>V<br>C<br>EF<br>CS<br>EF<br>CS<br>EF<br>EF<br>EF                             | T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>N |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. Have to smarage both my family and work. Its hestic           11         Nothing, These is nothing I don't like           12         Right structures. When I have to follow routine patterns           13         Right structures. When I have to follow routine patterns           14         Not exactly much but there are some changes taking place. I might not like it           15         Long working boors. I jet tired           16         Long morking boors. I jet tired           17         When students lies and I have to follow routine work. I can't do anything abor           19         Workload           10         In not famile. 9-to-5 Can't move from my desk for long           11         attimes, it's streamfil. Its heavy workload           12         Change is good but not when its too offen because it's creating over workload           13         Administrative borden. It is exit a workload           14         Administrative borden. It is exit a workload           15         Personality cahas. Sometime people are not the sits of first based           16         When I am to fairly trated by others. Lack of carser opportunities           16         Beronality cahas. Sometime people are not the sits of first based           16         Lately my bos. I. Am profession. I do thing for the size of the sits more yeab. Making weveryone hapyor. There is policities of the site. </td <td>N<br/>L<br/>CS<br/>L<br/>CS<br/>L<br/>V<br/>V<br/>C<br/>EF<br/>CS<br/>EF<br/>CS<br/>EF<br/>EF<br/>EF</td> <td>T<br/>NT<br/>T<br/>NT<br/>T<br/>NT<br/>T<br/>NT<br/>T<br/>T<br/>NT<br/>T<br/>NT<br/>T<br/>NT</td> <td></td>  | N<br>L<br>CS<br>L<br>CS<br>L<br>V<br>V<br>C<br>EF<br>CS<br>EF<br>CS<br>EF<br>EF<br>EF                             | T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>T<br>NT<br>T<br>NT<br>T<br>NT      |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. Have to manage both my family and work. Its hestic           17         Nothing, These is nothing I don't like           13         Rigid structures. When I have to follow routine patterns           14         Not exactly much but there are some changes taking place. I might not like if           15         Long working hown. I get tried           16         Long moking hown. I get tried           17         When student like and 1 have to follow routine work. I can't do anything abor           18         Long working hown. I get tried           17         When student like and 1 have you form my deak for long           10         11 at times, if its streadf. Its havery workload           10         Change is good but not when its too often because it's creating over workload           15         Unreliable environment. The policies of the poverament it should all changes in the policies, procedures.           16         Unreliable environment. Too many changes in the policies, procedures.           16         Toomstime scored patten in process driven rather than studet driven           16         Intracally try. I fon't like multible environment. There is uncertainty. Whe           16         Statestyme yes. I amy professional. I do thing for the sake of all bit he simpol           16         Intracally try. I fon't like multible environment. There olicis or ather move is the solicies port of finner or work m  | N<br>L<br>CS<br>L<br>CS<br>V<br>V<br>C<br>E<br>F<br>C<br>S<br>E<br>F<br>E<br>F<br>E<br>F<br>E<br>F<br>L<br>E<br>F | T<br>NT<br>T<br>NT<br>T<br>NT<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT     |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA          | 10         Workload. Have to manage both my family and work. Its bactic           11         Nothing, These is nothing I don't like           12         Rajid structure. When I have to follow rootine gatterns           13         Rajid structure. When I have to follow rootine gatterns           14         Note acatly much but these are some changes taking place. I might not like it           15         Long works in these are some changes taking place. I might not like it           16         Long works in the of follow rootine work. I can't do anything abox           18         Under structure. When I have to follow rootine work. I can't do anything abox           18         Long mora. I find no time for my family           19         Write structure. I have limited time for my family           19         Workload           20         Intens, it as trendful. Its havy workload           20         Change is good but not when its too often because it's creating over workload           20         Change is good but not when its too often because it's creating over workload           20         Change is good but not when its too family so its carser opportunitie           21         A ministrative bedme. It is earts workload           20         Wane I am of fairly treated by others. Lack of carser opportunities           21         Berenondily clasha. Sometime peopler aroot tor its as of 14 but he   | N<br>L<br>CS<br>L<br>CS<br>L<br>V<br>V<br>C<br>EF<br>CS<br>EF<br>CS<br>EF<br>EF<br>EF                             | T<br>NT<br>T<br>NT<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T     |                         |          |           |                               |       |   |            |        |  |            |
| J FEMA<br>J<br> | 10         Workload. Have to manage both my family and work. Its hestic           17         Nothing, These is nothing I don't like           13         Rigid structures. When I have to follow routine patterns           14         Not exactly much but there are some changes taking place. I might not like it           15         Long working hown. I get tried           16         Long moking hown. I get tried           17         When student like and I have to follow routine work. I can't do anything abor.           18         Long working hown. I get tried           17         When student like and I have you follow           18         Long working hown. I get tried           19         Workload.           10         I horn hown. I have limited time for my family           17         When student like and I have you ofcoad           10         I har time, it's streadf. It has have workload           10         Change is good but not when its too often because it's creating over workload           16         Unreliable environment. Too policies of the portent it is and it's man and fairly treated by other. Lack of carser opportanities           16         Intracand type. I don't like multikle environment. There solicies of all but he simpo           16         Intracand type. I don't like multikle environment. There is uncertainty. Whe           16         I ha  | N<br>L<br>CS<br>L<br>CS<br>V<br>V<br>C<br>E<br>F<br>C<br>S<br>E<br>F<br>E<br>F<br>E<br>F<br>E<br>F<br>L<br>E<br>F | T<br>NT<br>T<br>NT<br>T<br>NT<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT     |                         |          |           |                               |       |   |            |        |  |            |
| FEMA            | 10         Workload. Have to manage both my family and work. Its hestic           11         Nothing, These is nothing I don't like           12         Nagi attractures. When I have to follow rootine gatterns           14         Not exactly much but these are some changes taking place. I might not like it           15         Long working hows: I get it mid           16         Long more. I find no time for my family           17         When student lis and I have to follow rootine work. I can't do anything abox           18         Long working hows: I get it of follow rootine work. I can't do anything abox           19         Working doed but not when its too often because it's creating over workload           10         Change is god but not when its too often because it's creating over workload           16         Longen, Pressner from government. The policies of the government is chan           16         Administrative bedme. It is earts workload           16         Brennelity clashs. Sometime people are not it is to I field bad           18         Peronality clashs. Sometime people are not it is so I field bad           19         Lately my baos. I am profession. I do thing if of the size of the size of the size of Making averyone happy. There is policine not the the impol           19         Lately my baos. I am profession. I do thing for the size of the  | N<br>L<br>CS<br>C<br>C<br>C<br>CS<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C                | T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>N |                         |          |           |                               |       |   |            |        |  |            |
| FEMA            | 10         Workload. Have to manage both my family and work. Its hestic           17         Nothing, These is nothing I don't like           13         Rigid structures. When I have to follow routine patterns           14         Not exactly much but there are some changes taking place. I might not like it           15         Long working hown. I get tried           16         Long moking hown. I get tried           17         When student like and I have to follow routine work. I can't do anything abor.           18         Long working hown. I get tried           17         When student like and I have you follow           18         Long working hown. I get tried           19         Workload.           10         I horn hown. I have limited time for my family           17         When student like and I have you ofcoad           10         I har time, it's streadf. It has have workload           10         Change is good but not when its too often because it's creating over workload           16         Unreliable environment. Too policies of the portent it is and it's man and fairly treated by other. Lack of carser opportanities           16         Unreliable environment. The solicies of a list the metrim of some three some plate in the reliable environment. The solicies of all by the ispecial like any work and it's man ispecial like any work and it's man isplate in than stice of list bad dit's man and fairly treated by ot  | N<br>L<br>CS<br>L<br>CS<br>V<br>V<br>C<br>E<br>F<br>C<br>S<br>E<br>F<br>E<br>F<br>E<br>F<br>E<br>F<br>L<br>E<br>F | T<br>NT<br>T<br>NT<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T     |                         |          |           |                               |       |   |            |        |  |            |

|     | Is there anything you do to overcome it?<br>Responses  |               | Themes                                 | Letter code  | 2            | OVERALL<br>Statisitc             |             | FEMALE<br>Statisitc                 |             | MALE<br>Statisitc                                   |   |
|-----|--|---------------|--|--------------|--------------|----------------------------------|-------------|-------------------------------------|-------------|---|---|
| ALE | Like I said I am very balance person. Even a walk brings   | 8. T          | Break (short break/walk, e             |              |              | Frequency                        |             | Frequency                           |             | Frequency   |   |
|     | 2 Nothing  | N T<br>N T    | Nothing<br>Take immedicate measure     | N<br>TI      |              | Break (short break/wa            | 22<br>28    | Break (short break/wa               | 12<br>11    | Break (short break/walk<br>Nothing                  |   |
|     | 3 Nothing<br>4 Nothing   | N T           | Self meditation (Yoga, exer            |              |              | Nothing<br>Take immedicate mea   | 10          | Nothing<br>Take immedicate mea      |             | Take immedicate measu                               |   |
|     | 5 Not much   | N T           | Drink water/coffee/tea                 | DR           |              | Self meditation (Yoga            | 13          | Self meditation (Yoga               | 22          | Self meditation (Yoga, e                            |   |
|     | 6 I go to physiotherapist. Sometimes stiffness in body. My   | т т           | Social support (talking to fi          | S            |              | Drink water/coffee/te            | 1           | Drink water/coffee/te               |             | Drink water/coffee/tea                              |   |
|     | 7 Not much but I walk. Sometime I choose to walk to feel r   | SM T          |  |              |              | Social support (talking          | 24          | Social support (talkin              | 15          | Social support (talking t                           |   |
|     | 8 Nothing  | N T           |  |              |              | Total                            | 98          | Total                               | 49          | Total   |   |
|     | 9 Not really but I try taking uber ride so I am not too tired.   | SM T          |  |              |              |                                  |             |                                     |             |   |   |
|     | 10 I take medication. I regularly take co-renetic so my BP re-   |               |  |              |              |                                  |             |                                     |             |   |   |
|     | 11 I wish I could  | N NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 12 I go to therapist once every 15th day. Physiotherapy is e   | TI NT         |  |              |              |                                  |             |                                     |             |   |   |
|     | 13 I take pain killer. With growing age, I feel more physical j  | TI NT         |  |              |              |                                  |             |                                     |             |   |   |
|     | 14 I go out for a break. I know I can't do much. I told you I a  | B NT          |  | Teaching     | Non-teaching | OVERALL                          |             |                                     |             |   |   |
|     | 15 Nothing   | N NT          | Break (short break/walk, et            |              | 13           | Proportion                       | _           | FEMALE                              |             | MALE  |   |
|     | <ul> <li>Yes. I will talk to authorities, ensure I am heard and thing</li> <li>Nothing</li> </ul>  | S T           | Nothing<br>Take immedicate measure     | 17           | 11<br>6      | Break (short break/wa<br>Nothing | 22%         | Proportion<br>Break (short break/wa | 249/        | Proportion<br>Break (short break/walk               | 2 |
|     | 18 I am atic to tea so usually I take tea to reduce my stress.   | DR NT         | Self meditation (Yoga, exer            |              | 4            | Take immedicate mea              | 10%         | Nothing                             | 24%         | Nothing   | 3 |
|     | 19 Nothing   | N T           | Drink water/coffee/tea                 | 0            | 1            | Self meditation (Yoga            | 13%         | Take immedicate mea                 |             | Take immedicate measi                               | 1 |
|     | 20 I talk to my friends  | S T           | Social support (talking to f           |              | 14           | Drink water/coffee/te            | 1%          | Self meditation (Yoga               |             | Self meditation (Yoga, e                            |   |
|     | 21 Nothing<br>22 I take break  | N NT          | Total<br>Grand Total Respondents       | 49<br>98     | 49           | Social support (talkin)<br>Total | 24%<br>100% | Drink water/coffee/te               |             | Drink water/coffee/tea<br>Social support (talking t | 1 |
|     | 22 I take break<br>23 I take pain killers  | TI NT         | Grand Total Respondents                | 56           |              | iotai                            | 100%        | Social support (talkin<br>Total     | 31%<br>100% | Social support (talking t<br>Total                  | 1 |
|     | 24 I have support from friends and family so I am never too  | S NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 25 Nothing   | N T           |  |              | Non-teaching |                                  |             |                                     | Male a      |   |   |
| ALE |  | S T<br>SM NT  | Break (short break/walk, et<br>Nothing | t 18%<br>35% | 27%<br>22%   |                                  |             | Break (short break/wa<br>Nothing    |             | 2   |   |
|     | <ol> <li>I read and do research work. Enaging myself in activites</li> <li>Avoid it. I involve myself in research work. Talk to other</li> </ol> | SM NT<br>SM T | Nothing<br>Take immedicate measure     |              | 22%<br>12%   |                                  |             | Nothing<br>Take immedicate mea      |             | 3   |   |
|     | 29 I go for walk   | B NT          | Self meditation (Yoga, exer            |              | 8%           |                                  |             | Self meditation (Yoga               |             | 8   |   |
|     | 30 I take break. Try to not think about it much  | 8 T           | Drink water/coffee/tea                 | 0%           | 2%           |                                  |             | Drink water/coffee/te               | 1           | 0   |   |
|     | 31 Sports. I involve myself in sporting activities   | B NT          | Social support (talking to fi          |              | 29%          |                                  |             | Social support (talkin              |             | 5   |   |
|     | 32 We talk to others. All in same boat. Structuring it to see:<br>33 I listen to music. This way I feel much more relaxed                        | S NT<br>SM NT | Total                                  | 100%         | 100%         |                                  |             | Total<br>Grand total                | 49 4<br>98  | 19  |   |
|     | <ul> <li>34 I am introvert. I don't talk too much, just my wife. I wan't</li> </ul>  | TI T          |  |              |              |                                  |             |                                     |             |   |   |
|     | 35 Talk to others  | S NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 36 Often I plan slots.   | TI T          |  |              |              |                                  |             |                                     |             |   |   |
|     | <ul> <li>37 I do go out for walk or I talk by taking a break</li> <li>38 Take a short break</li> </ul>   |               |  |              |              |                                  |             |                                     |             |   |   |
|     | 39 Nothing   | N NT          | ()<br>()                               |              |              |                                  |             |                                     |             |   |   |
|     | 40 Sports  | B NT          | M                                      |              |              |                                  |             |                                     |             |   |   |
| 4   | 41 Weird thinking. I can't do much   | N NT          | -                                      |              |              |                                  |             |                                     |             |   |   |
| -   | <ul> <li>42 Nothing</li> <li>43 I don't have stress in my dictionary. It doesn't affect me :</li> </ul>  | N T           |  |              |              |                                  |             |                                     |             |   |   |
|     | 44 Talking to friends for advices. Discussion with colleague   | S T           |  |              |              |                                  |             |                                     |             |   |   |
|     | 45 You can chat with colleagues. Stress release due to socia   | S T           |  |              |              |                                  |             |                                     |             |   |   |
|     | 46 I go for a walk. I feel less stress due to walk. Some fresh   |               |  |              |              |                                  |             |                                     |             |   |   |
| -   | 47 Nothing<br>48 I travelatever Lean to find right equation Months I talk t  | N NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 48 I try whatever I can to find right equation. Mostly I talk t<br>49 Nothing  | S NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | A 50 Yes, I complaint, I coordinate, negotiate , discuss with of   | S NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 51 I discuss my issues with my close ones. Being social hel  | S NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 52 Yoga and Gym. I do go for exercise to overcome<br>53 Nothing  | SM NT         |  |              |              |                                  |             |                                     |             |   |   |
|     | 54 Try to talk to my close one. It helps to be on track  | S NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 55 I communicate with people to overcome it. If too much b   | S NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | <ul> <li>56 Nothing</li> <li>57 Yes, I talk to my friends, it helps me feel relaxed</li> </ul>   | N T<br>S T    | -                                      |              |              |                                  |             |                                     |             |   |   |
|     | 57 Yes, I talk to my friends, it helps me feel relaxed<br>58 I try to busy myselF so I don't think too much. The pesir                           |               |  |              |              |                                  |             |                                     |             |   |   |
|     | 59 Nothing but I do request to not shuffle my classes  | S T           |  |              |              |                                  |             |                                     |             |   |   |
|     | 60 Try to engage myseld in some social activities.   | S T           |  |              |              |                                  |             |                                     |             |   |   |
|     | 61 I walk, talk, do something to divert my attention. This is  | 8 1           |  |              |              |                                  |             |                                     |             |   |   |
|     | 62 I go for walk. It releases my stress<br>63 Nothing  | N T           |  |              |              |                                  |             |                                     |             |   |   |
|     | 64 I try to focus on positive side. I do Yoga  | SM T          |  |              |              |                                  |             |                                     |             |   |   |
|     | 65 I use pain killers  | TI NT         |  |              |              |                                  |             |                                     |             |   |   |
|     | 66 Usually take break<br>67 Nothing  | B NT          |  |              |              |                                  |             |                                     |             |   |   |
| -   | 67 Nothing<br>68 Nothing   | N NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 69 The best way of getting out of my depression is talk to s   | S T           |  |              |              |                                  |             |                                     |             |   |   |
| _   | 70 I take rest. Proper rest helps me overcome these issues   | B NT          |  |              |              |                                  |             |                                     |             |   |   |
| -   | 71 Nothing<br>72 I take breaks on regular interval   | B NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 72 I take breaks on regular interval<br>73 I take break from work.   | B NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | AI 74 Yes. Walking helps me but not too much. I will say walk  | B NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 75 I try myself to manage my time  | TI T          | 1                                      |              |              |                                  |             |                                     |             |   |   |
|     | 76 Nothing<br>77 Talk to comehody  | N T           |  |              |              |                                  |             |                                     |             |   |   |
|     | <ul> <li>77 Talk to somebody</li> <li>78 I talk to my close ones. It just helps me</li> </ul>  | S NT<br>S T   |  |              |              |                                  |             |                                     |             |   |   |
|     | 79 I take meditation. I pray. Try to exercise  | SM NT         |  |              |              |                                  |             |                                     |             |   |   |
|     | 80 Talk to someone. Some advices to listen   | S NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 81 Regular breaks. Once you go home don't think about it   | B T<br>B NT   |  |              |              |                                  |             |                                     |             |   |   |
|     | 82 I take break. I have backache issue<br>83 I try to ignore. Overthinking will not help me  | B NT<br>SM T  |  |              |              |                                  |             |                                     |             |   |   |
|     | 84 Nothing   | N T           |  |              |              |                                  |             |                                     |             |   |   |
|     | 85 Its compromise. You can't do much   | N T           |  |              |              |                                  |             |                                     |             |   |   |
|     | 86 I have lately started taking medicine. I see Dr/GP. I have  | TI NT         |  |              |              |                                  |             |                                     |             |   |   |
|     | 87 Nothing<br>88 I talked to my colleagues. It usually helps   | N T<br>S NT   | -                                      |              |              |                                  |             |                                     |             |   |   |
|     | 88 I talked to my colleagues. It usually helps<br>89 Personally I do all to keep stable mind. I don't have colle                                 |               |  |              |              |                                  |             |                                     |             |   |   |
|     | 90 We have good relationship with colleagues. I am not de-   | S NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 91 I try to do some sports. Busy myself in some activity   | SM T          | 1                                      |              |              |                                  |             |                                     |             |   |   |
|     | 92 Family support is all I have. Nothing from here. I talk to r  | S NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 93 I have sporting background. Sometimes I go fo run,gym,<br>94 Nothing  | SM T          |  |              |              |                                  |             |                                     |             |   |   |
|     | 95 Take a break  | B NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 96 We do request break   | B NT          |  |              |              |                                  |             |                                     |             |   |   |
|     | 97 Sometimes I take break  | B NT<br>S NT  | -                                      |              |              |                                  |             |                                     |             |   |   |
| -   | 98 I talk to others  |               |  |              |              |                                  |             |                                     |             |   |   |

|            |             | What effect does it have on your efficiency?  |                   |        |  |                     |                    | OVERALL                                  |     | FEMALE                                   |          |        | MALE                                     |     |
|------------|-------------|---|-------------------|--------|--|---------------------|--------------------|--|-----|--|----------|--------|--|-----|
| MAI        |             | Responses   | в                 |        |  | Letter c<br>B       | ode                | Statisite                                |     | Statisite                                |          |        | Statisite                                |     |
| MAI        | LE .        | I am disappointed but my efficiency doesn't reduce     Feel de-motivation   | В                 | т<br>т | Negative Behaviou<br>Negative Psycholo |                     |                    | Frequency<br>Negative Behavioural impact | 28  | Frequency<br>Negative Behavioural impact | 12       |        | Frequency<br>Negative Behavioural impact | -   |
|            |             | 3 I feel anxious  | po.               |        | Negative Physiolog                     |                     |                    | Negative Psychological impact            |     | Negative Psychological impact            | 23       |        | Negative Denavioural Impact              |     |
|            | 2           | 4 My health disturbs  | P                 | т      | Negative Physiolog<br>Nothing          | N                   |                    | Negative Physiological impact            |     | Negative Physiological impact            | 23       |        | Negative Physiological impact            |     |
| . —        |             | 5 I feel low, depressed   | PB                | Ť      | nouning                                |                     |                    | Nothing                                  | 14  | Nothing                                  | 7        |        | Nothing                                  |     |
|            |             | 6 My health is disturbed. I have backage due to too much driving  | Р                 | Т      |  |                     |                    | Total                                    | 98  | Total                                    | 49       |        | Total                                    |     |
|            |             | 7 I feel fatigue  | PS:               | T      |  |                     |                    |  |     |  |          |        |  |     |
|            | 8           | 8 I feel stressed. Efficiency reduce  | В                 | Ť      |  |                     |                    |  |     |  |          |        |  |     |
| ( <u> </u> | 9           | 9 Fatigue and tireness develop. I feel my efficiency reduce   |                   |        | · · · · · · · · · · · · · · · · · · ·  |                     |                    |  |     |  |          |        |  |     |
| ·          | 1           | 10 My health affects. My efficiency is low as my BP rises   | P                 | NT     | (                                      |                     |                    |  |     |  |          |        |  |     |
|            |             | 11 Goes down. I have frustration<br>12 Very bad effect. Health is going down  | PS                | NT     |  | a a a <b>b</b> ia d | dan tanahina       |  |     |  |          |        |  |     |
|            |             | 12 Very bad effect. Health is going down<br>13 Tires me too much  | 5                 | ALT    |  |                     | Non-teaching<br>12 | OVERALL                                  |     | FEMALE                                   |          |        | MALE                                     |     |
|            | 1           | 14 I feel annoved. Sometimes my health disturbs   | B                 | NI     | Negative Behaviou<br>Negative Psycholo | 16<br>26            | 12                 | Proportion                               |     | Proportion                               |          |        | Proportion                               |     |
|            | 1           | 15 I have physical pain. My body aches so my efficiency reduce a bit  | P                 | NT     | Negative Physiolog                     |                     | 16                 | Negative Behavioural impact              | 29% | Negative Behavioural impact              | 27%      |        | Negative Behavioural impact              | 3   |
| -          | 1           | 16 Sometimes I am annoyed. I feel I can't change. My motivation reduces   | В                 | т      | Nothing                                | 3                   | 11                 | Negative Psychological impa              |     | Negative Psychological impa              | 47%      |        | Negative Psychological impact            |     |
| ē          | 1           | 17 Efficiency is fine. Just my health goes disturb  | N                 | NT     | Total                                  | 49                  | 49                 | Negative Physiological impac             |     | Negative Physiological impac             |          |        | Negative Physiological impact            |     |
|            | 1           | 18 My health disturbs. I feel low   | 8                 | NT     | Grand Total Res                        |                     |                    | Nothing                                  | 14% | Nothing                                  | 14%      |        | Nothing                                  | 1   |
| 1          | 1           | 19 Emotional disbalance at times  | PS-               | T      |  |                     |                    | Total                                    |     | Total                                    | ***      |        | Total                                    | 100 |
| 1          | 2           | 20 Feel irritation. Mood swings   |                   |        |  |                     |                    |  |     |  |          |        |  |     |
| 1          | 2           | 21 Physically stressed out  | P                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            | 2           | 22 I would say I avoid others   | 8                 | NT     | 1                                      | eaching             | Ion-teaching       |  |     |  |          | Female | ,  |     |
|            | 2           | 23 Phsical pain affects my efficiency   | P                 | NT     | Negative Behaviou                      | 33%                 | 24%                |  |     | Negative Behavioural impact              |          | 13     |  |     |
|            | 2           | 24 Nothing ever happens to my efficiency  | N                 | NT     | Negative Psycholo                      |                     | 20%                |  |     | Negative Psychological impa              | 13       | 23     |  |     |
|            | 2           | 25 I do feel bad. I sometime misbehave with others and later I appologize fo  | В                 | т      | Negative Physiolog                     |                     | 33%                |  |     | Negative Physiological impac             | 14       | 6      |  |     |
| MAI        | LE 2        |   | В                 | T      | Nothing                                | 6%                  | 22%                |  |     | Nothing                                  | 7        | 7      |  |     |
| -          | 2           | 27 I can manage very well. No effect on my efficiency<br>28 De material a fail an efficience in the second sec | N                 | NT     | Total                                  | 100%                | 100%               |  |     | Total                                    | 49<br>98 | 49     |  |     |
|            | 2           | 28 De-motivation. I feel my efficiency is reducing because of politiccs and le<br>29 Nothing. I can manage it all   | 175               | NT     |  |                     |                    |  |     | Grand total                              | 36       |        |  |     |
|            | 4           | 20 Nothing. I can manage it all<br>30 At times, my mood is off. I don't like anything. I go into my own world.  | N                 | INT    |  |                     |                    |  |     |  |          |        |  |     |
|            | 3           | 30 At times, my mood is off. I don't like anything. I go into my own world.<br>31 Nothing   | N                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
| ·          | 3           | 32 De-motivation. When there is no growth. Motivation gets very low.  | B                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            | 3           | 38 Efficiency reduce. I feel my body is not well. There is pain and headacher   | P                 | NT     | -                                      |                     |                    |  |     |  |          |        |  |     |
| 2.         | 3           | 34 Efficiency not really. It put you to more pressure and I am capable of ha  | N                 | т      |  |                     |                    |  |     |  |          |        |  |     |
| )          | 3           | 35 I am fine but just at times I fee my muscles are jam. Body stiffness   | P                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            | 3           | 36 It does. If I have my way 20% on screen and 80% hard copies. Eyes need   | P                 | Т      |  |                     |                    |  |     |  |          |        |  |     |
|            | 3           | 37 Yes, to some extent. I start worrying about it   | В                 | Т      |  |                     |                    |  |     |  |          |        |  |     |
|            | 3           | 38 Yes, If I can't read English of poor structure I feel agitated   | PS                | Ť      |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 39 Tired. Feel body stiffness   | P                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 40 De-motivation  | В                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            | _           | 41 Yes, most of the times I have headache and body related issues   | P                 | NT     | 1                                      |                     |                    |  |     |  |          |        |  |     |
| - 1        |             | 42 I feel depression  | PS.               | T.     | 1                                      |                     |                    |  |     |  |          |        |  |     |
| -          |             | 43 I decide how an exame to do. I don't have stress in my dictionary so it do   | N                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
| i —        | 4           | 44 Does affect physically as well as mentally but mostly its mental depression  | PS                | Ţ      |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 45 It doesn't but fact is that too large extent its same so bit boring in long r  | В                 | Т      |  |                     |                    |  |     |  |          |        |  |     |
| )          | 4           | 46 Slightly stressful. Anxiety  | Ra                |        | -                                      |                     |                    |  |     |  |          |        |  |     |
| _          | 4           | 47 Aching pain in my body   | P                 | NI     |  |                     |                    |  |     |  |          |        |  |     |
| )          | 9           | 48 It certainly does, especially ehen systems doesn't work. I often feel angry  | 5                 |        |  |                     |                    |  |     |  |          |        |  |     |
|            | 4           | 49 Its depressing   |                   |        |  |                     |                    |  |     |  |          |        |  |     |
| FEM        |             | 50 I feel pressure. This is when I make mistakes  | В                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 51 Efficiency comes down. I have disturb sleep pattern. My mood is affected   | PS                | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            | 5           | 52 Efficency negatively affected. I feel depression   | PS                | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            | 5           | 53 I have irritation. Sometimes I am moody  | PS                | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            | 5           | 54 De-motivates me  | 8                 | NT     | 1                                      |                     |                    |  |     |  |          |        |  |     |
| -          | 5           | 55 Efficiency doesn't reduce as now I have years of experience to handle it   | N                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            | 5           | 56 Efficiency reduce as I stard feeling bored   | PS                | 1      | -                                      |                     |                    |  |     |  |          |        |  |     |
|            |             | 57 Fractionally reduce my efficiency  | В                 | т      |  |                     |                    |  |     |  |          |        |  |     |
|            | 5           | 58 Yes, I at times got very very disappointed   | B                 | Т      |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 59 I think efficiency declines. My mind is disturb  |                   |        |  |                     |                    |  |     |  |          |        |  |     |
|            | 0           | 60 My energy reduces. I feel bored<br>61 Sometimes I have mood swings, if things do not go my way   | B                 | т      | -                                      |                     |                    |  |     |  |          |        |  |     |
|            | 0           | Sometimes 1 nave mood swings, it things do not go my way     Not much but psychological aspects some how disturbs   | 0                 | -      |  |                     |                    |  |     |  |          |        |  |     |
| -          | 6           | 63 I have psychological depression. I feel stress negatively affects me   |                   |        |  |                     |                    |  |     |  |          |        |  |     |
|            | 6           | 64 Feel like behavioural and personal distraction   | В                 | т      |  |                     |                    |  |     |  |          |        |  |     |
| •          |             | 65 Yes, I get tired. Physically stressed  | P                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 66 I sometimes want to relax so I avoid others  | В.,               | NT     | 1                                      |                     |                    |  |     |  |          |        |  |     |
| 61         |             | 67 I worry a lot. I go into my own shell  | PS                | NT     | 1                                      |                     |                    |  |     |  |          |        |  |     |
| ۱          |             | 68 Nothing  | N                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            | 6           | 69 I have depression  | PS                | Ť.     |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 70 Body needs rest. My body doesn't get rest. I have backache issue   | P                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 71 Nothing  | N                 | Т      |  |                     |                    |  |     |  |          |        |  |     |
|            | 7           | 72 I have aches. Headache and pain in body  | P                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 73 I constantly worry   |                   |        |  |                     |                    |  |     |  |          |        |  |     |
| FEM        |             | 74 If those changes take place, my efficiency will reduce. I am on medicatio  | P                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
| È.         |             | 75 Yes, I get upset. Become moody   |                   |        |  |                     |                    |  |     |  |          |        |  |     |
| ·          |             | 76 I have aggitation. Feel low  | 10                |        |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 77 Nothing<br>78 It does I have disturbed along   | N                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            | 1           | 76 It does. I have disturbed sleep<br>79 It depends more worload gives me more stress. I have body stiffness usual  | D D               | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 11 depends more worload gives me more stress. I have body stiffness usual<br>80 Yes, de-motivation. I want to stay away from others for while due to it.  | PS                | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            | 0           | <ol> <li>as, co-motivation. I want to stay away from others for while due to it.</li> <li>Efficiency reduces. At times it gets into depression</li> </ol>   | pg                | T.     |  |                     |                    |  |     |  |          |        |  |     |
|            | 8           | 82 Over workload creates anxiety. I become moody  | PS                | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            | 8           | 83 It affects my mood   | PS                | Ť      |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 84 Stress I can't concerntrate  |                   |        |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 85 De-motivated. At times pessimestic thoughts occur  | PS.               |        |  |                     |                    |  |     |  |          |        |  |     |
|            | 8           | 86 All the time feel worrying about things  | PS                | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            | 8           | 87 Nothing  | N                 | т      | 1                                      |                     |                    |  |     |  |          |        |  |     |
|            | 8           | 88 Few times but I know how to control. Still sometimes I worry   | PS                | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            | 8           | 89 Sometime it becomes demotivating   | В                 | Т      | 2                                      |                     |                    |  |     |  |          |        |  |     |
|            | 9           | 90 Nothing. I am a professional.  | N                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 31 I feel anxiety   | PS                | Т      |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 32 Not much but just sometimes I have disurbed diet   | В                 | NT     |  |                     |                    |  |     |  |          |        |  |     |
|            |             | 93 Body aching  | Р                 | т      | 1                                      |                     |                    |  |     |  |          |        |  |     |
|            | 9           |   | В                 | Т      |  |                     |                    |  |     |  |          |        |  |     |
| -          | 9           | 94 I usually drink and smoke when I am stressed due to work   |                   |        |  |                     |                    |  |     |  |          |        |  |     |
| ;          | 9           | 95 Yes, efficency affects. Its mostly fatigue   | PS                | NT     |  |                     |                    |  |     |  |          |        |  |     |
| -          | 9<br>9<br>9 | <ol> <li>Yes, efficency affects. Its mostly fatigue</li> <li>I do feel fatigue but its more giving me physical pain. Especially usin key</li> </ol>   | PS<br>P           | NT     |  |                     |                    |  |     |  |          |        |  |     |
| ;          | 9<br>9<br>9 | 95 Yes, efficency affects. Its mostly fatigue   | PS<br>P<br>B<br>N |        | -                                      |                     |                    |  |     |  |          |        |  |     |

| IALE  | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9 | Very little<br>No<br>No<br>No<br>To little extent<br>Not directly but yes                              | S<br>N<br>N<br>N<br>S  | T<br>T<br>T   | Yes<br>To some<br>No   | Y<br>S<br>N  |   | Frequency<br>Yes<br>To some extent  | 28  | Frequency<br>Yes<br>To some extent  | 14<br>16  |  | Frequency<br>Yes   |   |
|-------|---|--|--|---|--|--|---|---|---|---|---|--|--|---|
|       | 3<br>4<br>5<br>6<br>7<br>8                | No<br>No<br>To little extent<br>Not directly but yes   | N<br>N   |   | No   |  |   |   |   |   |   |  | res  |   |
|       | 4<br>5<br>7<br>8                          | No<br>To little extent<br>Not directly but yes   | N  | π   |  |  |   |   |   |   |   |  | To some extent   |   |
|       | 6<br>7<br>8                               | Not directly but yes   | S  |   | Not sure   | NS   |   | No  | 24  | No  | 10  |  | No   |   |
|       | 7<br>8                                    |  |  | T   |  |  |   | Not sure  | 12  | Not sure  | 9   |  | Not sure   | .,  |
|       | 8   | Little bit   | Y<br>S   | T   |  |  |   | Total   | 98  | Total   | 49  |  | Total  | -   |
|       | 9   | Not much   | S  | Ť   |  |  | 10 IO   |   |   |   |   |  |  | 1   |
|       |   | Just little  | S  | T   |  |  |   |   |   |   |   |  |  |   |
|       | 10<br>11                                  | No<br>No   | N<br>N   | NT<br>NT  |  |  |   |   |   |   |   |  |  | -   |
|       | 11  | Yes  | N.   | NT  |  | Teaching   | on-teaching   |   |   |   |   |  |  | -   |
|       | 13  | Yes  | Ý  | NT  | Yes  | 14   | 14  | OVERALL   |   | FEMALE  |   |  | MALE   |   |
|       | 14<br>15                                  | I wish there was<br>Yes  | N  | NT  | To some  | 18   | 16  | Proportion  | 200/  | Proportion  | 29%   |  | Proportion   | 2   |
|       | 15  | Yes  | Y  | T   | No<br>Not sure   | 11<br>6  | 13  | Yes<br>To some extent   | 29%<br>35%  | Yes<br>To some extent   | 33%   |  | Yes<br>To some extent  |   |
|       | 17  | Yes  | ¥.   | NT  | Total  | 49   | 49  | No  | 24%   | No  | 20%   |  | No   | 1   |
|       | 18  | Yes, to some level   | S  | NT  | Grand Tot  | 98   |   | Not sure  | 12%   | Not sure  | 18%   |  | Not sure   | 1   |
|       | 19<br>20                                  | No<br>No   | N  | T<br>T  | -  |  |   | Total   | 100%  | Total   | 100%  |  | Total  | 10  |
|       | 21  | Very little  | S  | NT  |  | Teaching   | on-teaching   |   |   |   | Male  | Female   |  |   |
|       | 22  | Too limited  | S  | NT  | Yes  | 29%  | 29%   |   |   | Yes   | 14  | 14   |  | -   |
|       | 23<br>24                                  | Not sure<br>Not sure   | NS<br>NS   | NT<br>NT  | To some<br>No  | 37%<br>22%   | 33%<br>27%  |   |   | To some extent<br>No  | 18<br>14  | 16<br>10   |  |   |
|       | 25  | No. We do not have such  | N  | Т   | Not sure   | 12%  | 12%   |   |   | Not sure  | 3   | 9  |  |   |
| IALE  | 26  | Not as far I know  | N  | T   | Total  | 100%   | 100%  |   |   | Total   | 49  | 49   |  | _   |
|       | 27<br>28                                  | Very low<br>Yes, we have healthcare at   | S<br>Y   | NT<br>T   |  |  |   |   |   | Grand total   | 98  |  |  | +   |
|       | 29  | Not that I am aware of   | N  | NT  |  |  |   |   |   |   |   |  |  |   |
|       | 30  | There is representation an   | Y  | T   |  |  |   |   |   |   |   |  |  | -   |
|       | 31<br>32                                  | No but to some extent I gu<br>There is everything  | S<br>Y   | NT  | -  |  |   |   |   |   |   |  |  | +   |
|       | 33  | Not much   | N  | NT  |  |  |   |   |   |   |   |  |  |   |
|       | 34  | Yes, no idea if its effective  | Y  | т   |  |  |   |   |   |   |   |  |  | -   |
| _     | 35<br>36                                  | I heard but not taken. No i<br>Yes. To some extent   | S  | NT  |  |  |   |   |   |   |   |  |  | -   |
|       | 37  | Yes  | Y  | T   | 1  |  |   |   |   |   |   |  |  |   |
|       | 38  | Yes to some extnet. I have   | S  | T   |  |  |   |   |   |   |   |  |  | -   |
|       | 39<br>40                                  | Yes, very low<br>No  | S<br>N   | NT<br>NT  |  |  |   |   |   |   |   |  |  | -   |
|       | 41  | Yes, somewhat  | S  | NT  |  |  |   |   |   |   |   |  |  |   |
|       | 42  | Yes, very little   | S  | Т   |  |  |   |   |   |   |   |  |  |   |
|       | 43<br>44                                  | Yes, if anyone need it, the<br>You can say yes, when yo  | Y<br>N   | NT  |  |  |   |   |   |   |   |  |  | -   |
| _     | 45  | Yes, Health and welbeing   | Y  | т   |  |  |   |   |   |   |   |  |  |   |
|       | 46  | Yes, to some level. There i  | S  | T   |  |  |   |   |   |   |   |  |  |   |
|       | 47<br>48                                  | Not sure<br>Yes, everyone knows abou   | NS<br>S  | NT  | -  |  | 10  |   |   |   |   |  |  | -   |
|       | 49  | To little extent   | S  | NT  |  |  |   |   |   |   |   |  |  |   |
| EMALE |   | Very low   | S  | NT  |  |  |   |   |   |   |   |  |  |   |
|       | 51<br>52                                  | Yes<br>Yes   |  |   |  |  | -   |   |   |   |   |  |  | -   |
|       | 53  | Yes but very little  | S  | NT  |  |  |   |   |   |   |   |  |  |   |
|       | 54  | Very small representation  | S  | NT  |  |  |   |   |   |   |   |  |  |   |
|       | 55<br>56                                  | Very rare<br>No  | SN   | NT  | -  |  |   |   |   |   |   |  |  | -   |
| _     | 57  | Yes  | Y  | т   |  |  |   |   |   |   |   |  |  |   |
|       | 58  | Yes  | Y  | т   |  |  |   |   |   |   |   |  |  |   |
|       | 59<br>60                                  | Very low<br>Not much   | S<br>S   | T<br>T  | -  |  |   |   |   |   |   |  |  | _   |
|       | 61  | Yes  | Y  | т   |  |  |   |   |   |   |   |  |  |   |
|       | 62  | Very little  | S  | Ť   |  |  |   |   |   |   |   |  |  |   |
|       | 63  | No   | N  | Ţ   |  |  |   |   |   |   |   |  |  | -   |
|       | 64<br>65                                  | No<br>No   | N<br>N   | NT  |  |  |   |   |   |   |   |  |  | +   |
|       | 66  | No   | N  | NT  |  |  |   |   |   |   |   |  |  |   |
|       | 67  | No   | N  | NT  |  |  |   |   |   |   |   |  |  | -   |
|       | 68<br>69                                  | No<br>Very low   | N  | NT<br>T   |  |  |   |   |   |   |   |  |  | +   |
|       | 70  | No   | N  | NT  | 1  |  |   |   |   |   |   |  |  |   |
|       | 71  | Quite low  | S  | T   |  |  |   |   |   |   |   |  |  | -   |
|       | 72<br>73                                  | No<br>Very little  | N<br>S   | NT<br>T   |  |  |   |   |   |   |   |  |  | +   |
| EMALE | 74  | I do not think there is one.   | NS   | NT  |  |  |   |   |   |   |   |  |  |   |
|       | 75<br>76                                  | Yes, some extent<br>Not sure   | S  | Ţ   |  |  |   |   |   |   |   |  |  |   |
|       | 70  | Yes, to some extent  | NS<br>S  | T   |  |  |   |   |   |   |   |  |  |   |
|       | 78  | Not that I am aware of   | NS   | T   |  |  |   |   |   |   |   |  |  |   |
|       | 79<br>80                                  | Yes, we do have but befor<br>Not really  | S<br>N   | NT<br>NT  |  |  |   |   |   |   |   |  |  | -   |
|       | 81  | Not really<br>No idea but very low.  | NS   | T   |  |  |   |   |   |   |   |  |  | 1   |
|       | 82  | Yes  | Ý  | NT  |  |  |   |   |   |   |   |  |  |   |
|       | 83  | Yes. I don't know I hadn't   | Y  |   |  |  |   |   |   |   |   |  |  | -   |
|       | 84  | Sometimes, we should use   | S  | T   |  |  |   |   |   |   |   |  |  | +   |
|       | 86  | They say they have it. Las   | 5  | NT  |  |  |   |   |   |   |   |  |  |   |
|       | 87  | Not that is known to me  | NS   | T   |  |  |   |   |   |   |   |  |  | -   |
|       | 88  |  | NS   | T   |  |  |   |   |   |   |   |  |  | -   |
|       | 89  | Not really sure if they have   | NS   | NT  |  |  |   |   |   |   |   |  |  |   |
|       | 89<br>90                                  |  | NS   | T   | 1  |  |   |   |   |   |   |  |  |   |
|       | 90<br>91                                  |  |  | NT  | -  |  |   |   |   |   |   |  |  | -   |
|       | 90<br>91<br>92                            | Yes, we have health and w  | 5<br>V   |   |  |  |   |   |   |   |   |  |  | -   |
|       | 90<br>91                                  |  | S<br>Y<br>Y  | T<br>T  |  |  |   |   |   |   |   |  |  |   |
|       | 90<br>91<br>92<br>93<br>94<br>95          | Yes, we have health and w<br>I believe it is but somewha<br>Yes, very visible<br>Yes, support is there | Y<br>Y   | T<br>T<br>NT  |  |  |   |   |   |   |   |  |  |   |
|       | 90<br>91<br>92<br>93<br>94                | Yes, we have health and w<br>I believe it is but somewha<br>Yes, very visible                          | Y<br>Y   | T<br>T  |  |  |   |   |   |   |   |  |  | -   |
|       |   | 83<br>84<br>85<br>86<br>87<br>88<br>88<br>89<br>90   | 83 Yes. I don't know I hadn't<br>84 Yes, largely present but I<br>85 Sometimes, we should use<br>86 They say they have it. Las<br>87 Not that is known to me<br>88 Yes, we have senate hous<br>89 Not aware of that<br>90 Not really sure if they hav.<br>91 I don't know. I never heard | 83     Yes. I don't know I hadn't try       84     Yes, largely present but I in the set of the s | 83     Yes. I don't know I hadn't     Y     T       84     Yes, largely present but I     Y     T       85     Sometimes, we should use     S     T       86     They say they have it. Las     S     NT       87     Not that is known to me     N5     T       88     Yes, we have senate house     Y     N0       89     Not aware of that     N5     T       90     Not really sure if they have     N5     NT       91     I don't know. I never heard     N5     T       92     Yes, we have health and w     S     NT | 83     Yes, I don't know I hadn't Y     T       84     Yes, Jargely present but I : Y     T       85     Sometimes, we should use S     T       86     They say they have it. Las S     NT       87     Not that is known to me     NS       88     Yes, we have senate hous     Y       89     Not aware of that     MS       90     Not really sure if they havy     NS       91     I don't know. I never heard     NS       92     Yes, we have health and w     S | 83     Yes. I don't know I hadn'tn     Y     T       84     Yes, largely present but I     Y     T       85     Sometimes, we should use S     T       86     They say they have it. Las     S     NT       87     Not that is known to me     NS     T       88     Yes, we have senate hous     S     NT       89     Not aware of that     NS     NT       90     Not really sure if they havy     NS     NT       91     I don't know. I never heard     NS     T       92     Yes, we have health and w     S     NT | 83       Yes. I don't know I hadn't Y       T         84       Yes, Jargely present but I:       Y       T         85       Sometimes, we should use       S       T         86       They say they have it. Las       S       NT         87       Not that is known to me       NS       T         88       Yes, we have senate house       Batt       Not aware of that       NS       T         90       Not really sure if they have       NS       NT       1       I don't know. I never heard       NS       T         91       I don't know. I never heard       NS       T       1       1       2       Yes, we have health and w       S       NT         93       I believe it is but somewhat       Y       T       1 </td <td>83     Yes. I don't know I hadn't r     Y     T       84     Yes, Jargely present but I     Y     T       85     Sometimes, we should use     S     T       86     They say they have it. Las     S     NT       87     Not that is known to me     NS     T       88     Yes, we have senate house     MT     Not aware of that     NS       89     Not aware of that     NS     T       90     Not really sure if they have     NS     NT       91     I don't know. I never heard     NS     T       92     Yes, we have health and w     S     NT       93     I believe it is but somewhat     Y     T</td> <td>83     Yes. I don't know I hadn't Y     T       84     Yes, Jargely present but I:     Y     T       85     Sometimes, we should use     S     T       86     They say they have it. Las     S     NT       87     Not that is known to me     NS     T       88     Yes, we have senate house     AT       89     Not aware of that     NS     T       90     Not really sure if they have     NS     NT       91     I don't know. I never heard     NS     T       92     Yes, we have health and w     S     NT       93     I believe it is but somewhat     Y     T</td> <td>83     Yes. I don't know I hadn'ty     Y     T       84     Yes, Jargely present but I:     Y     T       85     Sometimes, we should use     S     T       86     They say they have it. Las     S     NT       87     Not that is known to me     NS     T       88     Yes, we have senate hous     Y     HI       89     Not aware of that     MS     T       90     Not really sure if they havy     NS     NT       91     I don't know. I never heard     MS     T       92     Yes, we have health and with S     NT       93     I believe it is but somewhaty     Y</td> <td>83       Yes. I don't know I hadn't v       T         84       Yes, Jargely present but I       Y       T         85       Sometimes, we should use       S       T         86       They say they have it. Las       S       NT         87       Not that is known to me       NS       T         88       Yes, we have senate house       MT         89       Not aware of that       NS       T         90       Not really sure if they have       NS       NT         91       I don't know. I never heard       NS       T         92       Yes, we have health and w       S       NT         93       I believe it is but somewhat       Y       T</td> <td>83     Yes. I don't know I hadn't Y     T       84     Yes, Jagely present but I:     Y     T       85     Sometimes, we should use     S     T       86     They say they have it. Las     S     NT       87     Not that is known to me     NS     T       88     Yes, we have senate house     MT       89     Not aware of that     NS     T       90     Not really sure if they have     NS     NT       91     I don't know. I never heard     NS     T       92     Yes, we have health and w     S     MT       93     I believe it is but somewhat     Y     T</td> <td>83       Yes. I don't know I hadn't Y       T         84       Yes, Jargely present but I:       Y       T         85       Sometimes, we should use       S       T         86       They say they have it. Las       S       NT         87       Not that is known to me       NS       T         88       Yes, we have senate house       MT         89       Not aware of that       NS       T         90       Not really sure if they have       NS       NT         91       I don't know. I never heard       NS       T         92       Yes, we have health and w       S       NT         93       I believe it is but somewhat       Y       T</td> | 83     Yes. I don't know I hadn't r     Y     T       84     Yes, Jargely present but I     Y     T       85     Sometimes, we should use     S     T       86     They say they have it. Las     S     NT       87     Not that is known to me     NS     T       88     Yes, we have senate house     MT     Not aware of that     NS       89     Not aware of that     NS     T       90     Not really sure if they have     NS     NT       91     I don't know. I never heard     NS     T       92     Yes, we have health and w     S     NT       93     I believe it is but somewhat     Y     T | 83     Yes. I don't know I hadn't Y     T       84     Yes, Jargely present but I:     Y     T       85     Sometimes, we should use     S     T       86     They say they have it. Las     S     NT       87     Not that is known to me     NS     T       88     Yes, we have senate house     AT       89     Not aware of that     NS     T       90     Not really sure if they have     NS     NT       91     I don't know. I never heard     NS     T       92     Yes, we have health and w     S     NT       93     I believe it is but somewhat     Y     T | 83     Yes. I don't know I hadn'ty     Y     T       84     Yes, Jargely present but I:     Y     T       85     Sometimes, we should use     S     T       86     They say they have it. Las     S     NT       87     Not that is known to me     NS     T       88     Yes, we have senate hous     Y     HI       89     Not aware of that     MS     T       90     Not really sure if they havy     NS     NT       91     I don't know. I never heard     MS     T       92     Yes, we have health and with S     NT       93     I believe it is but somewhaty     Y | 83       Yes. I don't know I hadn't v       T         84       Yes, Jargely present but I       Y       T         85       Sometimes, we should use       S       T         86       They say they have it. Las       S       NT         87       Not that is known to me       NS       T         88       Yes, we have senate house       MT         89       Not aware of that       NS       T         90       Not really sure if they have       NS       NT         91       I don't know. I never heard       NS       T         92       Yes, we have health and w       S       NT         93       I believe it is but somewhat       Y       T | 83     Yes. I don't know I hadn't Y     T       84     Yes, Jagely present but I:     Y     T       85     Sometimes, we should use     S     T       86     They say they have it. Las     S     NT       87     Not that is known to me     NS     T       88     Yes, we have senate house     MT       89     Not aware of that     NS     T       90     Not really sure if they have     NS     NT       91     I don't know. I never heard     NS     T       92     Yes, we have health and w     S     MT       93     I believe it is but somewhat     Y     T | 83       Yes. I don't know I hadn't Y       T         84       Yes, Jargely present but I:       Y       T         85       Sometimes, we should use       S       T         86       They say they have it. Las       S       NT         87       Not that is known to me       NS       T         88       Yes, we have senate house       MT         89       Not aware of that       NS       T         90       Not really sure if they have       NS       NT         91       I don't know. I never heard       NS       T         92       Yes, we have health and w       S       NT         93       I believe it is but somewhat       Y       T |

|   |        |          | Responses  |          |          | Themes                | Letter coo | de           | Statisitc                         |          | Statisitc                         |          |          | Statisitc                     |     |
|---|--------|----------|--|----------|----------|-----------------------|------------|--------------|-----------------------------------|----------|-----------------------------------|----------|----------|-------------------------------|-----|
|   | MALE   | 1        | Yes, large extent  | 15       | T        | To large              | L.         |              | Frequency                         |          | Frequency                         |          |          | Frequency                     |     |
|   | -      | 2        | Can be. I have no idea   | NS       |          | To some               | S          |              | To large extent                   |          | To large extent                   | 18       |          | To large extent               | 1   |
|   |        | 3        | Could be. Not sure<br>Not sure   | NS<br>NS |          | Not sure<br>Not at al | NS<br>N    |              | To some extent<br>Not sure        | 26<br>28 | To some extent<br>Not sure        | 16<br>12 |          | To some extent<br>Not sure    |     |
|   |        | 5        | No   | N        | т        | Notatal               | N          |              | Not at all                        | 28       | Not at all                        | 3        |          | Not at all                    |     |
|   |        | 6        | Not much. It depends on personal capab   | N        | Ť        | -                     |            |              | Total                             | 98       | Total                             | 49       |          | Total                         | 4   |
|   |        | 7        | Could be but not sure. Well it can be god  | S        | Т        |                       |            |              |                                   |          |                                   |          |          |                               |     |
|   |        | 8        | Could be. No idea  | N        | T        |                       |            |              |                                   |          |                                   |          |          |                               | -   |
|   |        | 9<br>10  | Yes, helps you in dealing with workplace<br>No idea  | NS       | NT       |                       |            |              |                                   |          |                                   |          |          |                               | -   |
|   |        | 11       | Not sure   | NS       | NT       |                       |            |              |                                   |          |                                   |          |          |                               | 1   |
|   |        | 12       | To large extent. When I use it I feel relax  | L        | NT       |                       | Teaching   | Non-teaching | OVERALL                           |          |                                   |          |          |                               |     |
|   |        | 13       | No. If it was, I wouldn't used pills. They   | N        | NT       | To large              | 15         | 13           | Proportion                        | -        | FEMALE                            | -        |          | MALE                          | -   |
| 5 |        | 14<br>15 | May be it could be effective. Some may f<br>A very little but no much because I think          | S<br>S   | NT<br>NT | To some<br>Not sure   | 15<br>13   | 11<br>15     | To large extent<br>To some extent |          | Proportion<br>To large extent     | 37%      |          | Proportion<br>To large extent | 20  |
|   |        | 16       | Not just effective but very essential to he  | S        | T        | Not at al             | 6          | 10           | Not sure                          | 29%      | To some extent                    | 33%      |          | To some extent                |     |
|   |        | 17       | No. its personal ability to overcome your  | - N      | NT       | Total                 | 49         | 49           | Not at all                        | 16%      | Not sure                          | 24%      |          | Not sure                      | 33  |
|   |        | 18       | Yes. You see it helps in ventilation. Very   | L        | NT       | Grand Tot             | 98         |              | Total                             | 100%     | Not at all                        | 6%       |          | Not at all                    | 27  |
| • |        | 19<br>20 | Not sure<br>Not sure   |          |          | 1                     |            |              |                                   |          | Total                             | 100%     |          | Total                         | 100 |
| J |        | 21       | Not sure   | NS       | NT       |                       |            |              |                                   |          |                                   |          |          |                               | 1   |
|   |        | 22       | Not sure   | NS       | NT       |                       |            | Non-teaching |                                   |          |                                   |          |          |                               |     |
|   |        | 23       | Not sure   | NS<br>NS | NT       | To large              | 31%        | 27%<br>22%   |                                   |          | To love entropy                   | Male     | Female   |                               | -   |
|   | _      | 24<br>25 | Not sure<br>No. I don't think these are effective becau  | N        | NT<br>T  | To some<br>Not sure   | 31%<br>27% | 31%          |                                   |          | To large extent<br>To some extent | 10<br>10 | 18<br>16 |                               | -   |
|   | MALE   | 26       | Absolutely, it could be very effective. So   | 1        | т        | Not at al             | 12%        | 20%          |                                   |          | Not sure                          | 16       | 12       |                               | 1   |
| J |        | 27       | Yes. It helps to large extent.   | L        | NT       | Total                 | 100%       | 100%         |                                   |          | Not at all                        | 13       | 3        |                               |     |
| J |        | 28       | I have not used but it could be effective.   | NS       | T        |                       |            |              |                                   |          | Total<br>Grand total              | 49       | 49       |                               | -   |
|   |        | 29<br>30 | Like I said I hadn't used but I think it cou<br>Yes. Very very useful and effective            | S        | NT       |                       |            |              |                                   |          | Grand total                       | 98       |          |                               | -   |
|   |        | 31       | No. Not at all   | N        | NT       |                       |            |              |                                   |          |                                   |          |          |                               | +   |
|   |        | 32       | Yes, but depend on person. People strug  | S        | NT       |                       |            |              |                                   |          |                                   |          |          |                               |     |
|   |        | 33       | No. I don't think it can be effective at all   | N        | NT       |                       |            |              |                                   |          |                                   |          |          |                               | -   |
| , |        | 34<br>35 | In order to be effective, it has to be comm<br>I never used so I am not sure                   | N        | T        | -                     |            |              |                                   |          |                                   |          |          |                               | +   |
|   |        | 36       | It doesn't have to be . I don't need it. I an  | S        | T        |                       |            |              |                                   |          |                                   |          |          |                               | +   |
|   |        | 37       | It helps in dealing with the cases of anxie  | L        | Ť        |                       |            |              |                                   |          |                                   |          |          |                               |     |
| 5 |        | 38       | I don't know   | NS       | T        |                       |            |              |                                   |          |                                   | -        |          |                               | -   |
|   |        | 39<br>40 | Never used it but yes it could be useful t<br>Not sure if it will make any difference          | S<br>NS  | NT<br>NT |                       |            |              | 1                                 |          |                                   | -        |          |                               | -   |
|   |        | 41       | No, it just there but not helping me. May  | N        | NT       |                       |            |              |                                   |          |                                   |          |          |                               | +   |
| 1 |        | 42       | I think for academics it is effective but ad   | 1        | T        |                       |            |              |                                   |          |                                   |          |          |                               |     |
| 1 |        | 43       | I don't think these occupational therapist   | N        | NT       |                       |            |              |                                   |          |                                   |          |          |                               | -   |
| , |        | 44<br>45 | At this age, what can they tell us? I have<br>I haven't been there but I believe it is use     | N<br>S   | T<br>T   |                       |            |              |                                   |          |                                   | -        |          |                               | -   |
|   |        | 45       | It's Ok. Low but for time being it should t  | S        | Ť        |                       |            |              |                                   |          |                                   |          |          |                               | 1   |
| ) |        | 47       | No, they can't share your burden and list  | N        | NT       |                       |            |              |                                   |          |                                   |          |          |                               |     |
| 1 |        | 48       | Its very effective, I have taken myself and  | L        | NT       |                       |            |              |                                   |          |                                   |          |          |                               |     |
| _ | FEMALE | 49<br>50 | Not sure<br>Yes. Professional will listen and submit re  | NS       | NT       | -                     |            |              |                                   |          |                                   | -        |          |                               | -   |
| 1 | FLMALL | 51       | Yes to some level. It can help in the redu-  | i.       | NT       |                       |            |              |                                   |          |                                   |          |          |                               | -   |
|   |        | 52       | Yes, definitely. The support really helps  | L        | NT       |                       |            |              |                                   |          |                                   |          |          |                               |     |
| ) |        | 53       | Yes. It helps in keeping the focus   | L        | NT       |                       |            |              |                                   |          |                                   |          |          |                               | _   |
|   |        | 54<br>55 | Not in direct way but it depends on indiv<br>Yes, every organization should invest in          | S        | NT<br>NT | -                     |            |              |                                   |          |                                   | -        |          |                               | -   |
| 1 |        | 56       | No idea  | NS       | T        |                       |            |              |                                   |          |                                   |          |          |                               | -   |
|   |        | 57       | Yes, sometimes. It helps in reducing stre  | S        | т        |                       |            |              |                                   |          |                                   |          |          |                               |     |
| ( |        | 58       | Yes. Obviously, the stress at job with de-   | L.       | T        |                       |            |              |                                   |          |                                   |          |          |                               | _   |
|   |        | 59<br>60 | To some extent. It much bring positive de<br>Yes, it will be good to have therapy and          | S        | T        | -                     |            |              |                                   |          |                                   |          |          |                               | -   |
|   |        | 61       | No idea but possible it will improve indiv   | S        | т        |                       |            |              |                                   |          |                                   | 1        |          |                               | -   |
|   |        |          | No idea . Not sure   | NS       | т        |                       |            |              |                                   |          |                                   |          |          |                               |     |
| 5 |        |          | Not sure   | NS       |          |                       |            |              |                                   |          |                                   |          |          |                               |     |
| - |        | 64       | Certainly can be effective. Professionals  | NS       | T        |                       |            |              |                                   |          |                                   |          |          |                               | -   |
|   |        | 65<br>66 | Not sure<br>To some extent it could be effective   | S        | NT       |                       |            |              |                                   |          |                                   |          |          |                               | +   |
|   |        | 67       | Not sure   | NS       | NT       |                       |            |              |                                   |          |                                   |          |          |                               |     |
| - |        | 68       | Not sure   | NS       | NT       |                       |            |              |                                   |          |                                   |          |          |                               |     |
| J |        | 69       | To some extent   | S<br>NS  | T        |                       |            |              |                                   |          |                                   | -        |          |                               | +   |
|   |        | 70<br>71 | Not sure<br>Yes, its somewhat effective  | NIS<br>S | NT<br>T  |                       |            |              |                                   |          |                                   | -        |          |                               | +   |
|   |        |          | No   | N        | NT       |                       |            |              |                                   |          |                                   |          |          |                               |     |
|   |        | 73       | To some extent   | S        | т        | 1                     |            |              |                                   |          |                                   |          |          |                               |     |
| J | FEMALE | 74       | I think it will help. At least to some extent  | S        | NT       | -                     |            |              |                                   |          |                                   |          |          |                               | -   |
| 1 |        | 75<br>76 | No idea here but I have used it previous!<br>No idea. Not sure it it can help or not           | NS       |          |                       |            |              |                                   |          |                                   |          |          |                               |     |
| • |        | 77       | No. It is not effective at all   | N        | NT       |                       |            |              |                                   |          |                                   |          |          |                               |     |
|   | -      | 78       | No idea  | NS       | T        |                       |            |              |                                   |          |                                   | -        |          |                               | 4   |
|   |        | 79<br>80 | No. I try myself.It's a personal thing. Hov<br>Possible but no sure if its very effective of   | N<br>NS  | NT<br>NT |                       |            |              |                                   |          |                                   | -        |          |                               | +   |
|   |        | 81       | Yes. Absolutely. I heard telephonic coun   | L        | T        |                       |            |              |                                   |          |                                   |          |          |                               | +   |
|   |        | 82       | Yes, It will help because its very effective   | L        | NT       |                       |            |              |                                   |          |                                   |          |          |                               |     |
| ) |        | 83       | Yes, I have used in another institution ar   | Ц.       | T        | -                     |            |              |                                   |          |                                   |          |          |                               | -   |
|   |        | 84<br>85 | I believe to some extetnt. I find it effectiv<br>I myself don't need it . I see other in pres: | S<br>S   | T<br>T   |                       |            |              |                                   |          |                                   | -        |          |                               | +-  |
|   |        | 85       | At least it helps in releasing stress. Talk t  | S        | NT       |                       |            |              |                                   |          |                                   |          |          |                               | 1   |
| 5 |        | 87       | I guess so. It can help people with tempo  | L        | T        |                       |            |              |                                   |          |                                   |          |          |                               |     |
|   |        | 88       | Yes. It helps you to be in the right state c   | L        | NT       |                       |            |              |                                   |          |                                   |          |          |                               | 1   |
|   |        | 89       | If available they would be helpful in reso   | L        | T        | -                     |            |              |                                   |          |                                   | -        |          |                               | -   |
| I |        | 90<br>91 | I believe so. It's nice to know someone is<br>Yes, psychologist really support me. I am        | 1        | NT       |                       |            |              |                                   |          |                                   | 1        |          |                               | +   |
| i |        | 92       | It could be effective to some level but I h  | NS       | NT       |                       |            |              |                                   |          |                                   |          |          |                               |     |
|   |        | 93       | It is to some extent   | S        | Т        | 3                     |            |              |                                   |          |                                   |          |          |                               |     |
| ) |        | 94       | Yes highly effective. I got immediate solu   | - L-     | Ţ        |                       |            |              |                                   |          |                                   |          |          |                               | 4   |
| ) |        | 95<br>96 | Yes, I assume as a whole it help keeps ye<br>No idea   | L<br>NS  | NT<br>NT | -                     |            |              |                                   |          |                                   | -        |          |                               | +   |
|   |        | 90       | I believe so to some extent  | S        | NT       |                       |            |              |                                   |          |                                   |          |          |                               | +   |
| 1 |        | 98       | Yes, to some extent in some matters  | s        | NT       |                       |            |              |                                   |          |                                   |          |          |                               |     |

|      |       | Are you aware of Social Support at workplace? Share what it is according to you? Do you  |       |                             |            |              | OVERALL                     |             | FEMALE                      |           |        | MALE                   |   |
|------|-------|--|-------|-----------------------------|------------|--------------|-----------------------------|-------------|-----------------------------|-----------|--------|------------------------|---|
|      |       | Responses  | VE    | Themes                      | Letter con | ie           | Statisitc                   |             | Statisitc                   |           |        | Statisitc              |   |
| ALE  | 1     | Yes, Healthywell environment. All look after eachother. Yes. Yes. When there is need from others. Even co<br>Yes. Environment of support from all emotional support from people. Yes. Yes. When I need help I talk to ad                 | VE T  | Very Effective<br>Effective | VE<br>E    |              | Frequency<br>Very Effective | 27          | Frequency<br>Very Effective | 10        |        | Frequency<br>Very Effe |   |
|      | 2     | Yes. Environment of support from all emotional support from people. Yes. Yes. When I need help I talk to ad<br>Yes. Support from all inside university. Yes. Yes. Not very effective. Not much   | 1 T   | Not sure                    | N          |              | Effective                   | 2 27<br>49  | Effective                   | 14        |        | Effective              |   |
|      | 4     | Yes. Cared by others. Yes. Yes. I found it constructive. Yes   | F T   | Ineffective                 | 1          |              | Not sure                    | 49          | Not sure                    |           |        | Not sure               |   |
|      | 5     | Yes. Social orientation and support to improve well-being. Yes. Yes. When I am unable to come I do get sup   | E T   | Very Ineffective            | IE         |              | Ineffective                 | 10          | Ineffective                 | 4         |        | Ineffectio             | , |
|      | 6     | Yes. Engagement with workplace and people arround you. Yes. I do partcipate in social gatherings/events.   | ь т.  |                             |            |              | Very Ineffect               |             | Very Ineffect               | 4         |        | Very Inef              |   |
|      |       |  | 1 1   |                             |            |              |                             |             | North Contractor Contra     |           |        |                        | î |
|      | 1     | Yes. Sometimes. When I feel I need a support I reach out and I find people around me gives me helping hand<br>Yes, Support to us from institution. Yes. Yes. When I am not able to come. Someone covers it on my behalf.                 |       |                             |            |              | Total                       | 98          | Total                       | 49        |        | Total                  |   |
|      | °     |  |       |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 9     | Yes. Supportive environment. Yes. Yes. When there is any serious emergency I cannot be available to cond   | ET    |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 10    |  | E NI  |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 11    | and the second   | I NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 12    | Yes. Social being. Yes. Yes. I find it very useful. I ask for help, someone is there to support me. Yes  | E NT  |                             | Teaching   | Non-teaching | OVERALL                     |             |                             |           |        |                        |   |
|      | 13    | Yes. Everyone caring about others. Yes. Yes. Very good. Yes  | VE NT | Very Effective              | 18         | 9            | Proportion                  |             | FEMALE                      |           |        | MALE                   |   |
|      | 14    | Yes. Some support to help you overcome the obstacles. Any person/setup/ etc. No. Not for junior staff. For   | IE NT | Effective                   | 23         | 26           | Very Effective              | 28%         | Proportion                  |           |        | Proportion             | n |
|      | 15    | Yes. Caring environment. Yes. Sometimes. There are many occasions, especially when there is annual days  | E NT  | Not sure                    | 3          | 4            | Effective                   | 50%         | Very Effective              |           |        | Very Effe              |   |
|      | 16    | Yes. Social being at work making life and work easy. Yes. Yes. The department is not made of buildings. It's   | VE T  | Ineffective                 | 3          | 7            | Not sure<br>Ineffective     | 7%          | Effective                   | 43%       |        | Effective              |   |
|      | 17    | Yes. Environment of support from all to all. Yes. At times. All use it when anything happens. There are other<br>Yes. Perception of organization taking care of your social wellbeing. Yes. Yes, I find it vital and support such        | VE NT | Very Ineffective<br>Total   | 2          | 3            | Very Ineffect               | 10%<br>i 5% | Not sure<br>Ineffective     | 12%<br>8% |        | Not sure<br>Ineffectiv |   |
|      |       | Yes but can't explain. Yes I have used. It is present here and its good experience. Very useful.   | VE T  | Grand Total Resp            |            | 45           | Total                       | 100%        | Very Ineffect               |           |        | Very Inef              |   |
|      |       | Yeah. Yes I often us it. It is informally available. There are many occassions. Its effective  | ET    |                             |            |              | Total                       | 100/0       |                             | 100%      |        | Total                  | Ī |
|      | 21    | Friendly and supportive environment. Yes we have and we all use it. Very effective   | VE NT |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 22    | It is very visible. We all support eachother. Yes we have. I do use. Its effective   | E NT  |                             |            | Non-teaching |                             |             |                             | Male      | Female |                        |   |
|      | 23    | Yes. It is available. Its effective  | E NT  | Very Effective              | 37%        | 18%          |                             |             | Very Effective              |           | 14     |                        |   |
|      | 24    | Yes. All resources available to hep us. Indeed its available. I am using it frequently. Its effective  | E NI  | Effective                   | 47%        | 53%          |                             |             | Effective                   | 28        | 21     |                        |   |
| AL F | 25    | Yes, I know. It's all different types of support at workplace. Yes, I find it effective<br>Not sure how to define it. Well, its not offered officially but we to help each other. Environment is very colla                              |       | Not sure<br>Ineffective     | 6%<br>6%   | 8%<br>14%    |                             |             | Not sure<br>Ineffective     | 1 6       | 6      |                        |   |
| ALE  | 26    | Not sure how to define it. Well, its not offered officially but we to help each other. Environment is very colla<br>Yes. Helping eachother at work. Yes. I have used it and it is effective. Not very effective but effective. Yes it    | E AFT | Very Ineffective            | 6%<br>4%   | 14%          |                             |             | Very Ineffect               |           | 4      |                        |   |
|      | 28    | Yes, I am familiar with it. There is technical support formally and peer support informally. Yes, It is very usef  | VE T  | Total                       | 4%         | 100%         |                             |             | Total                       | 49        | 49     |                        |   |
|      | 29    | Yes. I know, Yes I have used it. Not officially we have but yes we help eachother. Its not of too much use no  | I NT  |                             | 10070      | 300/0        |                             |             | Grand total                 | 98        |        |                        |   |
|      | 30    | Indeed I know. Your colleagues helping you. Supportive environment. It is very effective. When I was in the  | VE T  |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 31    | Yes. I do know supportive environment. Not much visible. I have used sometings. Not usefeul  | 1 NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 32    | Yes, Sense of team work in this office. Yes. It is always that someone in there. It allows me to relax. Effective  | E NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 33    |  | E NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | In informal way it is present. It is fruitful too. I use it like I go and discuss my issues. We share our experienc<br>It's built in. Caring and healthy environment. If we ask them only then I get it. If I ask my colleagues to cover | F AF  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes, supportive environment. Yes we do have it but informally. I never used formally but informally yes. Ver   | VE T  |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 37    | Informal one. We have no system of menotring but you get it if you ask asking for it. Yes, I have used it and  |       |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 38    | I know. Sometimes we use it. Yes friends are there. Yes I have consulted them when I need. Its good experies   | E T   |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 39    | Yes, practically its difficult because everybody is involved in managing their own workload. Yes, it is here a   | E NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 40    | Yes, it exist. We have it here but No I hadn't used. I am not sure it will be effective.   | N NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 41    | Yes, I know we have support system for all. We care about eachother. Yes, I do use it frequently. We cover   |       | -                           |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes, creative team to support one another. Yes. I use if very often in informal way and I have very good exp   | VE T  |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 43    |  | I NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 44    | All is there when you need. Obviously colleagues can't share workload. No, its not formally present. Colleag   | E T   |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 45    | Yes, there is technical support. Issues with HR then there is support. Yes, I use it informally. Yes, its effectiv<br>Physical, technical, and people support at desk. Yes, we informally have and I do use it. I find it effective for  | E T   |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 40    |  | E NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes, our office is goood at it. Very open to support if someone need anything. Effective   | E NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 49    | Yes informally I do use it. Its very effective   | VE T  |                             |            |              |                             |             |                             |           |        |                        |   |
| MAL  |       |  | VE NT |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       |  | VE NT |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       |  | VE NT |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | 3 I am. You don't feel along. Everyone is there to stand by you. Yes. Sometimes, Lovely, Yes<br>4 Obviously, I was busy last week due to my son's exams and could not make it to university but my colleague                             | E NI  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | 5 Obviously, I was busy last week due to my son's exams and could not make it to university but my colleague<br>5 Yes. Caring environment. Yes. Yes. Like I told you excessive burden so I ask usually Asfara, Yameen, and C             | E NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes. Support at work. No, everyone is busy in their own. No. No. No  |       |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes. Workplace support from peers. Yes. Yes. Very effective. Everyone in this department helps eachother.  | E T   |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes. Humans are social animal. They keep interacting with others. Yes. Yes. I found it very useful. Indeed a   | VE T  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       |  | VE T  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes. Wellbeing through people around you. Yes. Yes. Everyone cares for others. When I am busy we chang   | E T   |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes. Peer-head-junior support. Yes. Yes. Found it useful. Yes  | ET    |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | 2 Yes. Support at workplace from social perspective. Yes. Very good experience. Yes. There has been a reason<br>No. No. idea. May be but I don't use such things. Name Not sure.   | VE T  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | No. No idea. May be but I don't use such things. Never. Not sure<br>Indeed. Taking care of wellbeing of others. Yes. It was fantastic. We have social outings/ participative   | VE T  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | indeed. Faking care of wendering of others. Fes. It was familiastic, we have social outings/ participative<br>is Yes, formally present. Its part of work. It's a culture of this university to help all at workplace. Its effective. I   | E NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes. Its available and visible. I have used it very frequently. My experience is good. Yes, its very effective   | VE NT |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 67    | Not sure. No idea if its present. Not sure about its usefulness.   | N NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes, its good thing to have. Good experience. Its effective  | E NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes I know about it. All types of assistance inside department. Yes, I have used. Good experience. Very effe   | VE T  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | ) Not sure. No idea. Never used. No idea.<br>Ofcourse I know. We do have it here. Everyone work as one family. We look after eachother. Yes, I have use  | N NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 71    |  | IE NT |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 73    | I do know. Collaborating in work. Yes, I have used it. Its good experience. Very effective   | VE T  |                             |            |              |                             |             |                             |           |        |                        |   |
| MAL  | LI 74 | Yes there are some really nice people here. All help eachother. I can only speak for my team. Yes, it is here a  | E NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 75    | Yes, Every type of support. Yes I have used it and I had good experience. It is effective  | E T   |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes, informally social support is available. Its good. I would say effective   | E T   |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes. I have used it at times. Very useful  | VE NT |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes, its available. No, it doesn't help. No one has time to help you. Not of any use   | IE T  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes. We are using it. Useful when we have overload only then we use<br>Different department helps you. Yes, we have but No I never used it on day-to-day basis but sometime when   | E NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Different department neips you. Yes, we have but No I never used it on day-to-day basis but sometime when<br>Yes, support from others around you. A lot of having opportunities, workshops to solve. Yes, its effective                  | E T   |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Pes, support non others around you. A lot of naving opportunities, workshops to solve. Tes, its enective<br>Yes, learning and helping environment. Yes, it is definitely effective   | E NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes, its environment of cooperation. Informatly Yes I have used. One I can't come for exams so asked colleage  | VE T  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes, healthy environment where all cares for all. Yes it is present. Not really I used but I think it can be missu   | I T   |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 85    | Social care and belongingness. Informally yes its is there but I never used. I don't think I know the answer to  | N T   |                             |            |              |                             |             |                             |           |        |                        |   |
|      | 86    | No we don't have it but I have good time managment. I do talk to other but everyone has over workload. Its   | IE NT |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes, its transparent but I never use because it's not effective  | I T   |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes, supportive people. My team is supportive. I do use and its good experience. Useful  | E NT  | -                           |            |              |                             |             |                             |           |        |                        |   |
|      |       | No idea. Not sure. The only thing I used was continuous development program but nothing else   | N T   |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | There is always informal channel. I don't think so it helps. Not really effective  | I NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes, very effective. I do use and encourage such support at workplace  | VE T  | -                           |            |              |                             |             |                             |           |        |                        |   |
|      |       | Enformally present. I never used because I had previously used in another organisation, its of not effective<br>By Yes, like in my department we have good supporting environment and work relationship. Its useful and all the          | I NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Fes, like in my department we have good supporting environment and work relationship. Its useful and all the<br>Yes, its there but I don't find anyone saying its ineffective at all. Its effective and good to know there are othere.   | E T   |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | First, its interesting of a first anyone saying its interestive at all its enective and good to know there are of<br>Yes, both formally and informally we have and I do use it. Its ok. There are good and bad to it                     |       |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Fis, both formally and informally. Yes, It is good. It helps us  | E NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes. Formally and informally present. I used informally and its good.  | E NT  |                             |            |              |                             |             |                             |           |        |                        |   |
|      |       | Yes, I used both formally and informally. Its effective  | E NT  |                             |            |              |                             |             |                             |           |        |                        |   |

|       |   |        | ort through so |   |            |              | OVERALL                    |      | FEMALE                                    |             |        | MALE                       |  |
|-------|---|--------|----------------|---|------------|--------------|----------------------------|------|---|-------------|--------|----------------------------|--|
|       | Responses   |        | -              | Themes  | Letter co  | de           | Statisitc                  |      | Statisitc                                 |             |        | Statisitc                  |  |
| ALE   | 1 Emotional<br>2 Emotional  | E      | T              | Moral support<br>Emotional support  | E          |              | Frequency<br>Moral support | 35   | Frequency<br>Moral support                | 12          |        | Frequency<br>Moral support |  |
|       | 3 Only moral support  | M      | т              | Emotional as well a   |            |              | Emotional support          | 26   | Emotional support                         | 20          |        | Emotional support          |  |
|       | 4 Moral support   | M      | Ť              | No support at all   | N          |              | Emotional as well as m     |      | Emotional as well as                      | 9           |        | Emotional as wel           |  |
|       | 5 Emotional support   | E      | т              |   |            |              | No support at all          | 16   | No support at all                         | 8           |        | No support at all          |  |
|       | 6 Moral support   | м      | т              |   |            |              | Total                      | 98   | Total                                     | 49          |        | Total                      |  |
|       | and the second se |        |                |   |            |              |                            |      |   |             |        |                            |  |
|       | 7 Moral support<br>8 Moral  | M      | т              |   |            |              |                            |      |   |             |        |                            |  |
|       | 9 Both. But most commonly emotional supp  | B      | T              |   |            |              |                            |      |   |             |        |                            |  |
|       | 10 Moral support  | M      |                |   |            |              |                            |      |   |             |        |                            |  |
|       | 11 Moral only   |        |                |   |            |              |                            |      |   |             |        |                            |  |
|       | 12 Moral support  |        |                |   | Teaching   | Non-teaching | OVERALL                    |      |   |             |        |                            |  |
|       | 13 Moral support  |        |                | Moral support   | 14         | 20           | Proportion                 |      | FEMALE                                    |             |        | MALE                       |  |
|       | 14 Yes, I have gained moral support   |        |                | Emotional support   |            | 9            | Moral support              | 36%  | Proportion                                |             |        | Proportion                 |  |
|       | 15 Moral support  |        |                | Emotional as well a   |            | 13           | Emotional support          | 27%  | Moral support                             | 24%         |        | Moral support              |  |
|       | 16 Emotional and moral both. Emotional high   | 8      | т              | No support at all   | 9          | 7            | Emotional as well as m     |      | Emotional support                         | 41%         |        | Emotional suppor           |  |
|       | 17 Emotional as well as moral bu moral is hig   | В      | NT             | Total   | 49         | 49           | No support at all          | 16%  | Emotional as well as<br>No support at all | 18%         |        | Emotional as wel           |  |
|       | <ol> <li>Both but if I have to chosose one then me</li> <li>Moral</li> </ol>  | B<br>M | NT<br>T        | Grand Total Respond   | ¢ 98       |              | Total                      | 100% | Total                                     | 16%<br>100% |        | No support at all<br>Total |  |
|       | 20 Both moral and emotional support   | В      | Ť              |   |            |              |                            |      | 3000                                      |             |        |                            |  |
|       | 21 Moral most of the time   | M      |                | and the second se |            | Non-teaching |                            |      |   |             |        |                            |  |
|       | 22 Moral<br>23 Emotional  | M      | NT             | Moral support   | 29%<br>37% | 41%<br>18%   |                            |      |   | Male<br>23  | Female |                            |  |
|       | 23 Emotional<br>24 Moral  | M      | NT             | Emotional support<br>Emotional as well a  |            | 18%<br>27%   |                            |      | Moral support<br>Emotional support        | 23<br>6     | 12 20  |                            |  |
|       | 25 Moral support  | M      | т              | No support at all   | 18%        | 14%          |                            |      | Emotional as well as                      | 12          | 9      |                            |  |
|       | 26 Both but moral is higher   | м      | т              | Total   | 100%       | 100%         |                            |      | No support at all                         | 8           | 8      |                            |  |
|       | 27 Moral<br>There is no such policies but we have set   | M      | NT             |   |            |              |                            |      | Total<br>Grand total                      | 49          | 49     |                            |  |
|       | 28 There is no such policies but we have soc<br>29 No   | N      | NT             |   |            |              |                            |      | Grand total                               | 98          |        |                            |  |
|       | 30 Moral and emotional support together   | В      | Т              |   |            |              |                            |      |   |             |        |                            |  |
|       | 31 Nothing  | N      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 32 Both. Long time working here because of  | B      | NT<br>NT       |   |            |              |                            |      |   |             |        |                            |  |
| _     | 33 Combination of both<br>34 More Moral support   | BN     | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 35 I don't ask. No support at all   | N      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 36 I don't ask. No support at all   | 8      | Ť              |   |            |              |                            |      |   |             |        |                            |  |
| _     | <ul> <li>37 Main support is with technological support</li> <li>38 Not really any support</li> </ul>  | N      | T              |   |            |              |                            |      |   |             |        |                            |  |
|       | 38 Not really any support<br>39 Moral   | N      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 40 Both   | В      | NT             | 1   |            |              |                            |      |   |             |        |                            |  |
|       | 41 Moral support  | M      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 42 Moral support  | M      | T              |   |            |              |                            |      |   |             |        |                            |  |
|       | <ul> <li>43 Not at all. I don't get any</li> <li>44 None of them from colleagues. Who are in</li> </ul>   | N      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 45 Emotional and Moral both. The line betwee  | B      | T              |   |            |              |                            |      |   |             |        |                            |  |
|       | 46 Sometimes emotional support  | E      | T              |   |            |              |                            |      |   |             |        |                            |  |
|       | 47 Moral and only moral<br>48 Both  | B      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 49 Moral  | M      | T              | -   |            |              |                            |      |   |             |        |                            |  |
| EMALE | 50 Moral support  | M      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 51 Emotional more than the moral support  | E      | NT             | _   |            |              |                            |      |   |             |        |                            |  |
|       | 52 Moral support<br>53 Emotional support  | E ST   | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 54 Both but mostly emotional  | В      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 55 Emotional support definitely   | E      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 56 Only moral support could but I would so  | N      | T              |   |            |              |                            |      |   |             |        |                            |  |
|       | 57 I usually get emotional support from such<br>58 Both. Emotional support more   | 8      | Ť              |   |            |              |                            |      |   |             |        |                            |  |
|       | 59 Emotional support  | E      | т              |   |            |              |                            |      |   |             |        |                            |  |
|       | 60 Emotional  | E      | т              |   |            |              |                            |      |   |             |        |                            |  |
|       | 61 Moral support  | M      | Т              | _   |            |              |                            |      |   |             |        |                            |  |
|       | 62 Emotional<br>63 Moral only   | E<br>M | Т              | -   |            |              |                            |      |   |             |        |                            |  |
|       | 64 Emotional support  | E      | Ť              |   |            |              |                            |      |   |             |        |                            |  |
|       | 65 Emotional  | E      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 66 Both   | B      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 67 Nothing<br>68 Moral  | N      | NT             | -   |            |              |                            |      |   |             |        |                            |  |
|       |   | -      | T              |   |            |              |                            |      |   |             |        |                            |  |
|       | 69 Emotional support<br>70 Moral  | M      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 71 Both   | в      | Ť              |   |            |              |                            |      |   |             |        |                            |  |
|       | 72 Nothing  | N      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 73 Emotional support<br>74 Emotional support  | 6      | T              |   |            |              |                            |      |   |             |        |                            |  |
|       | 74 Emotional support<br>75 Emotional  | E      | Ť              | 1   |            |              |                            |      |   |             |        |                            |  |
|       | 76 Emotional  | E      | T              |   |            |              |                            |      |   |             |        |                            |  |
|       | 77 Moral support  | M      | NT.            |   |            |              |                            |      |   |             |        |                            |  |
|       | 78 No support<br>79 From my team moral support  | N      | MT             | -   |            |              |                            |      |   |             |        |                            |  |
|       | 80 Emotional support from my team. Not sure   | E      | NT             |   |            |              |                            |      |   |             |        |                            |  |
| 13    | 81 Moral not at all. Just emotional support at  | E      | T              |   |            |              |                            |      |   |             |        |                            |  |
|       | 82 Moral support  | M      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 83 Moral support<br>84 Emotional support  | M      | T              |   |            |              |                            |      |   |             |        |                            |  |
|       | 84 Emotional support<br>85 I just talk feeling. No support at all   | N      | T              |   |            |              |                            |      |   |             |        |                            |  |
|       | 86 Yes, I have comfort and received emotion   | E      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 87 Not needed. There is no support  | N      | T              |   |            |              |                            |      |   |             |        |                            |  |
|       | 88 Yes, both of them. Depends on situation  | B      | NT<br>T        |   |            |              |                            |      |   |             |        |                            |  |
|       | 89 Not at all. I think organisation doesn't car<br>90 Sometimes moral. I don't think academics  | N<br>M | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 91 Sometimes moral too but usually its moral  | E      | Т              |   |            |              |                            |      |   |             |        |                            |  |
|       | 92 Not at all. Never needed one. I don't think  |        | NT             | 10  |            |              |                            |      |   |             |        |                            |  |
|       | 93 Moral support  | M      | T              | -   |            |              |                            |      |   |             |        |                            |  |
|       | 94 Emotional support<br>95 Both   | B      | T              |   |            |              |                            |      |   |             |        |                            |  |
|       | 96 Both   | B      | NT             |   |            |              |                            |      |   |             |        |                            |  |
|       | 97 Both   | в      | NT             |   |            |              |                            |      |   |             |        |                            |  |

|      | 1              | you think about organizational problem that you may b  | e lach | ig of nau | laced before? If yo                            | u may p    | iease expi   | OVERALL                       | Jre: | FEMALE                                     |            |              | MALE                                    |    |
|------|----------------|--|--------|-----------|--|------------|--------------|-------------------------------|------|--|------------|--------------|---|----|
|      |                | Responses  |        |           |  | Letter cod | e            | Statisitc                     |      | Statisitc                                  |            |              | Statisitc                               |    |
| ALE  | 1              | My biggest concern. I ensure it is resolved<br>I feel annoyed. I feel my head is pounding hard   | P      | T         | My biggest priority/ch<br>No opinion           | P          |              | Frequency<br>My biggest pr    | 43   | Frequency<br>My biggest priority/e         | 17         |              | Frequency<br>My biggest priority        |    |
|      | 2              |  |        |           |  |            |              |                               |      | and the second second second               | 1/         |              |   | "  |
|      | 3              | I love challenges. I do better. I view them as a target and resolve<br>I feel it my own problem. I would do my best to overcome it   | P      | T         | Additional burden/ a<br>My concern only if dir | A<br>C     |              | No opinion<br>Additional bu   | 1 23 | No opinion<br>Additional burden/           | 1          |              | No opinion<br>Additional burder         | n  |
|      |                |  |        |           | 5773.PD  |            |              |                               |      |  |            |              | 100 C C C C C C C C C C C C C C C C C C |    |
|      | 5              | Biggest concern. I take active participation to resolve it   | P      | T         | Not sure                                       | U          |              | My concern o                  | 29   | My concern only if d                       | 15         |              | My concern only if                      | ۴. |
|      | 6              | Very important. I see them as my own problem because it is affe  |        | Т         |  |            |              | Not sure                      | 2    | Not sure                                   | 1          |              | Not sure                                |    |
|      | 7              | My biggest concern. I feel unrest if there is any such issues  | P      | т         |  |            |              | Total                         | 98   | Total                                      | 49         |              | Total                                   |    |
|      | 8              | I want it immediately resolved. When I see a problem I am at un  | Р      | Ť         |  |            |              |                               |      |  |            |              |   |    |
|      | 9              | My duty to resolve it. I like such issues and do all to ensure we  |        | T         |  |            |              |                               |      |  |            |              |   |    |
|      | 10             | A challenge. I welcome it and do my best to resolve it   | P      |           |  |            |              |                               |      |  |            |              |   |    |
|      | 11             | I see them as my own problems. If anything is not right. I ensur   |        |           |  |            |              |                               |      |  |            |              |   |    |
|      |                |  |        |           |  |            |              |                               |      |  |            |              |   |    |
|      | 12             | My actual problem. I must rectify it   |        |           |  | Teaching   | Non-teaching |                               |      |  |            |              |   |    |
|      | 13             | My own problem. I will do anything to solve it   | P.     |           | My biggest priority/ch                         | 22         | 21           | OVERALL                       |      | FEMALE                                     |            |              | MALE                                    |    |
|      | 14             | I see them as problem and want it solved   | P      |           | No opinion                                     | 0          | 1            | Proportion                    |      | Proportion                                 |            |              | Proportion                              |    |
|      | 15             | Extra burden. I have my own concerns and any extra burden fru  |        | NT        | Additional burden/ a                           |            | 10           | My biggest pr                 |      | My biggest priority/                       |            |              | My biggest priority                     | 0, |
|      | 16             | Organizational problem is my problem. I try solving them. It is o  |        | T         | My concern only if dir                         |            | 16           | No opinion                    | 1%   | No opinion                                 | 2%         |              | No opinion                              |    |
|      | 17             | Requires immediate solution. If in my department, I will deal with<br>Organizational problems are challenges and I like to take on cha   |        | NT        | Not sure<br>Total                              | 1 49       | 1 49         | Additional bu<br>My concern o |      | Additional burden/<br>My concern only if d | 31%<br>31% |              | Additional burder<br>My concern only if |    |
|      | 19             | Not sure. It is there to do I will do it else if not then I won't  | U      | т         | Grand Total Responden                          | 98         |              | Not sure                      | 2%   | Not sure                                   | 2%         |              | Not sure                                |    |
|      | 20             | My supreme priority. I will definitely try to overcome it  | P      | Ť         |  |            |              | Total                         | 100% | Total                                      | 100%       |              | Total                                   |    |
|      | 21             | My most important task. I will ensure I do it in best possible ma  | P      | NT        |  |            |              |                               |      |  |            | Famala       |   |    |
|      | 22<br>23       | Extra load. I won't say I will be happy to do it but not unhappy i<br>My responsibility. I will do it on urgent basis  | p      | NT<br>NT  |  | Teaching   | Non-teaching |                               |      | My biggest priority/e                      | Male<br>26 | Female<br>17 |   |    |
|      | 24             | Simply a problem and do it properly  | С      | NT        | My biggest priority/ch                         | 45%        | 43%          |                               |      | No opinion                                 | 0          | 1            |   |    |
| _    | 25             | No second thought. Its priority and I will do all to resolve it  | Р      | T         | No opinion                                     | 0%         | 2%           |                               |      | Additional burden/                         | 8          | 15           |   |    |
| ALE  | 26             | My concern. I deal with it a lot and I make sure I do it right<br>If it comes I will face it. No special concerns but I believe life is t  | P      | T         | Additional burden/ a                           | 27%        | 20%          |                               |      | My concern only if d                       | 14         | 15           |   |    |
|      | 27<br>28       | If it comes I will face it. No special concerns but I believe life is<br>I will solve it. I like such challenges which forces me to do more  | C      | NT        | My concern only if dir<br>Not sure             | 27%<br>2%  | 33%<br>2%    |                               |      | Not sure<br>Total                          | 1 49       | 1<br>49      |   |    |
|      | 29             | I like challenges. I am up for it  | P      | NT        | Total  | 100%       | 100%         |                               |      | Grand total                                | 98         |              |   |    |
|      | 30             | If it is related to my work than I will look into it but not if it isn't   | C      | т         |  |            |              |                               |      |  |            |              |   |    |
|      | 31<br>32       | Additional burden on me.<br>If it concerns me I will If I am require to do it  | A      | NT<br>NT  |  |            |              |                               |      |  |            |              |   |    |
|      | 32             | If it concerns me I will. If I am require to do it<br>Additional Burden  | A      | NI        |  |            |              |                               |      |  |            |              |   |    |
|      | 34             | It depends on time. If I am stressed. There is a lot on my table, y  | A      | т         |  |            |              |                               |      |  |            |              |   |    |
|      | 35             | I will do it. Directly or indirectly it is my problem  | Р      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      | 36<br>37       | Things can't be perfect. I convince my mind that you will come a<br>I will do it if it concerns me   | P      | T         |  |            |              |                               |      |  |            |              |   |    |
|      | 38             | It's a burden  | A      | т         |  |            |              |                               |      |  |            |              |   |    |
|      | 39             | I think you have to marry organization responsibilities but this   | С      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      | 40             | It's a challenge   | p.     | NT        |  |            |              |                               |      |  |            |              |   |    |
|      | 41<br>42       | Additional headache<br>I enjoy and it helps me get better  | A      | NT<br>T   |  |            |              |                               |      |  |            |              |   |    |
|      | 43             | I don't have any problem with extra task. I will try to solve it.  | c      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      | 44             | I do it for myself. A challenge for me   | р      | T         |  |            |              |                               |      |  |            |              |   |    |
|      | 45             | Things are never casting in stone. If there is new development   | C      | Т         |  |            |              |                               |      |  |            |              |   |    |
|      | 46             | Its challenge and I would like to do if related to my field<br>A challenge for me and I am always up for it  | C      | T         |  |            |              |                               |      |  |            |              |   |    |
|      | 48             | Its difficult to measure but difficulty in process is burden. Its pr   | A      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      | 49             | If the problem is related to my area I will do all I can   | С      | т         |  |            |              |                               |      |  |            |              |   |    |
| EMAL |                | I feel solution required but sometimes I am annoyed. I do not wa   |        | NT        |  |            |              |                               |      |  |            |              |   |    |
|      |                | I will solve and try but I Don't really enjoy when it is happening   |        | NT        |  |            |              |                               |      |  |            |              |   |    |
|      |                | My immediate effort to solve it. I see them my priority. Will do a<br>All organizations are complex. There are problems but all could  | P      |           |  |            |              |                               |      |  |            |              |   |    |
|      | 54             |  | P      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      | 55             |  | A      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      | 56             |  | A      | T<br>T    |  |            |              |                               |      |  |            |              |   |    |
|      | 57             |  |        | Ť         |  |            |              |                               |      |  |            |              |   |    |
|      | 59             |  |        | т         |  |            |              |                               |      |  |            |              |   |    |
|      | 60             | I feel initated. I feel my blood circulation increase  | A      | T         |  |            |              |                               |      |  |            |              |   |    |
|      | 61<br>62       |  |        | Ţ         |  |            |              |                               |      |  |            |              |   |    |
|      | 62<br>63       |  | C      | T         |  |            |              |                               |      |  |            |              |   |    |
|      | 64             | I see them as problems and deal with them one by one. I think a  |        | T.        |  |            |              |                               |      |  |            |              |   |    |
|      |                | Problem is a problem and you should resolve it, especially if it c   | С      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      | 66             | I regularly come across this situation. Sometimes I willingly do i<br>I have no opinion. What can I say  | C      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      |                | Type of stress. I aviod such things  | A      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      | 69             | My concern. I will do all to solve it. Its my responsibility   | P      | т         |  |            |              |                               |      |  |            |              |   |    |
|      | 70             | Additional stress. I don't like it at all  | A      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      | 71             | In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its part of life. Probler   | U      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      |                | Sort of burden. I won't like to do it  | A      | т         |  |            |              |                               |      |  |            |              |   |    |
| EMAL | 74             | A challenge for me and I am always up for it   | P.     | NT        |  |            |              |                               |      |  |            |              |   |    |
|      |                | Extra pressure<br>Very stressful. I will work if its compulsory  | A      | T         |  |            |              |                               |      |  |            |              |   |    |
|      | 77             | It will be a challenge and I will do my best   | P      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      | 78             | It's a problem and I see it as extra load  | A      | т         |  |            |              |                               |      |  |            |              |   |    |
|      |                | If it's in my area I will deal with it else I won't  | C      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      |                | Additional stress for me. I get stressed and feel over burdened<br>A challenge and I will do it  | A      | NT<br>T   |  |            |              |                               |      |  |            |              |   |    |
|      |                | It depends on what it is. We are all here for some work so if its r  | c      | NT        | -  |            |              |                               |      |  |            |              |   |    |
|      | 83             | I will involve only if required. If its important else won't like it   | C      | т         |  |            |              |                               |      |  |            |              |   |    |
|      |                | Additional burden  | A      | т         |  |            |              |                               |      |  |            |              |   |    |
|      |                | I don't think we can do much. We can find another job. Extra loa<br>I try to be positive and work out a way  | A      | T         |  |            |              |                               |      |  |            |              |   |    |
|      |                | I try to be positive and work out a way<br>Its extra burden  | A      | T         |  |            |              |                               |      |  |            |              |   |    |
|      | 88             | A challenge. I like doing it   | P      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      | 89             | I have wide area. I am always open to challenges. I enjoy it   | P.     | T         |  |            |              |                               |      |  |            |              |   |    |
|      |                | I go with group. I will solve it for all<br>If its in my department and if it touches me I will do it. I will accept it  | P      | NU        |  |            |              |                               |      |  |            |              |   |    |
|      | 92             | I just go to line manager and tell him to look at it. Why should I waste   | c      | NT        |  |            |              |                               |      |  |            |              |   |    |
|      | 93             | Such things happen all the time. I most of the time stands for it. I don'  | P      | T         |  |            |              |                               |      |  |            |              |   |    |
|      |                |  |        | - T       |  |            |              |                               |      |  |            |              |   |    |
|      | 94             | If its in my domain I will try resolving it<br>We have a team leader. We so there  | 6      | NT.       |  |            |              |                               |      |  |            |              |   |    |
|      | 94<br>95<br>96 | If its in my domain I will try resolving it<br>We have a team leader. We go there<br>They are critical. You keep thinking about it. They do affect you. Its t<br>I will still take opportunity to learn even if its not in my area | C<br>A | NT<br>NT  |  |            |              |                               |      |  |            |              |   |    |

|             |       |  | Responses  |   |  | Themes  | Letter cod | e            | OVERALL<br>Statisitc       |          | FEMALE<br>Statisitc                          |            |         | MALE<br>Statisitc                         |     |
|-------------|-------|--|--|---|--|---|------------|--------------|----------------------------|----------|--|------------|---------|---|-----|
| 1           | MALE  | 1  | My biggest concern. I ensure it is resolved  | VH  | т  | Very highly visible                           | VH         |              | Frequency                  |          | Frequency                                    |            |         | Frequency                                 |     |
|             |       | 2  | I feel annoyed. I feel my head is pounding hard  | -VI   | Ť  | Moderately visible                            | MV         |              | Very highly vi             | 32       | Very highly visible                          | 12         |         | Very highly visible                       |     |
|             |       | 3  | I love challenges. I do better. I view them as a target and resolv   | VH  | Т  | Visible                                       | V          |              | Moderately v               | 19       | Moderately visible                           | 8          |         | Moderately visible                        | E I |
|             |       | 4  | I feel it my own problem. I would do my best to overcome it  | MV  | T  | Neither visible not in                        | NN         |              | Visible                    | 14       | Visible                                      | 6          |         | Visible                                   |     |
|             |       | 5  | Biggest concern. I take active participation to resolve it   | VH  | т  | Invisbile                                     | 1          |              | Neither visib              | 3        | Neither visible not i                        | 2          |         | Neither visible no                        | e.  |
|             |       | 6  | Very important. I see them as my own problem because it is affe  |   | Т  | Moderately invisible                          |            |              | Invisbile                  | 9        | Invisbile                                    | 8          |         | Invisbile                                 |     |
| Ń.          |       | 7  | My biggest concern. I feel unrest if there is any such issues  | VH  | T  | Very highly invisible                         | VI         |              | Moderately in              | 9        | Moderately invisibl                          | 5          | -       | Moderately invisit                        |     |
|             |       | 8  | I want it immediately resolved. When I see a problem I am at un<br>My duty to resolve it. I like such issues and do all to ensure we   |   | T  |   |            |              | Very highly in             | 12<br>98 | Very highly invisible                        | 8<br>49    |         | Very highly invisib                       | 1   |
| 1           |       | 10   | A challenge. I welcome it and do my best to resolve it   | VH  | NT   |   |            |              | Total                      | 98       | Total  | 49         |         | Total                                     |     |
|             |       |  | I see them as my own problems. If anything is not right. I ensure  | UH I  | NT   |   |            |              |                            |          |  |            |         |   |     |
|             |       |  | My actual problem. I must rectify it   | MV  | NT   |   | Teaching   | Non-teaching |                            |          |  |            |         |   |     |
|             |       |  | My own problem. I will do anything to solve it   | VH  | NT   | Very highly visible                           | 19         | 14           | OVERALL                    |          | FEMALE                                       |            |         | MALE                                      |     |
|             |       |  | I see them as problem and want it solved   | V   | NT   | Moderately visible                            | 9          | 10           | Proportion                 |          | Proportion                                   |            |         | Proportion                                |     |
|             |       | 15   | Extra burden. I have my own concerns and any extra burden fru  | VI  | NT   | Visible                                       | 6          | 8            | Very highly vi             | 33%      | Very highly visible                          | 24%        |         | Very highly visible                       | - 4 |
| •           |       |  | Organizational problem is my problem. I try solving them. It is o  | MV  | T  | Neither visible not in                        | 1 1        | 2            | Moderately v               | 19%      | Moderately visible                           | 16%        |         | Moderately visible                        |     |
|             |       |  | Requires immediate solution. If in my department, I will deal with   | v   | NT   | Invisbile                                     | 6          | 3            | Visible                    | 14%      | Visible                                      | 12%        |         | Visible                                   |     |
| 6           | _     |  | Organizational problems are challenges and I like to take on cha   |   | NT   | Moderately invisible                          |            | 5            | Neither visib              | 3%       | Neither visible not i                        |            |         | Neither visible no                        | ).  |
| •           |       |  | Not sure. It is there to do I will do it else if not then I won't<br>My supreme priority. I will definitely try to overcome it   | NN<br>VH  | T  | Very highly invisible<br>Total                | 5<br>49    | 7 49         | Invisbile<br>Moderately in | 9%<br>9% | Invisbile                                    | 16%<br>10% |         | Invisbile                                 |     |
| J.          |       |  | My most important task. I will ensure I do it in best possible ma  |   | NT   | Grand Total Responden                         |            | 49           | Very highly in             | 12%      | Moderately invisibl<br>Very highly invisible |            |         | Moderately invisit<br>Very highly invisib |     |
| •           |       |  | Extra load. I won't say I will be happy to do it but not unhappy i   |   | NT   | Granu Total Responden                         | 20         |              | Total                      | 100%     | Total  | 100%       |         | Total                                     | 10  |
|             |       |  | My responsibility. I will do it on urgent basis  | VH  | NT   |   |            |              | Total                      | 100%     | Total  | 10070      |         | Total                                     | 10  |
|             |       |  | Simply a problem and do it properly  | MV  | NT   |   |            |              |                            |          |  | Male       | Female  |   |     |
|             |       |  | No second thought. Its priority and I will do all to resolve it  | VH  | т  |   |            |              |                            |          | Very highly visible                          | 20         | 12      |   |     |
|             | MALE  |  | I deal with it a lot and I make sure I do it right   | VH  | т  |   | Teaching   | Non-teaching |                            |          | Moderately visible                           | 11         | 8       |   |     |
| 1           |       |  | If it comes I will face it. No special concerns  | ÿ.  | NT   | Very highly visible                           | 39%        | 29%          |                            |          | Visible                                      | 8          | 6       |   |     |
| L.          |       |  | I will solve it. I like such challenges which forces me to do more   | VH  | т  | Moderately visible                            | 18%        | 20%          |                            |          | Neither visible not i                        | 1          | 2       |   |     |
|             |       |  | I like challenges. I am up for it  | VH  | NT   | Visible                                       | 12%        | 16%          |                            |          | Invisbile                                    | 1          | 8       |   |     |
|             |       |  | If it is related to my work than I will look into it but not if it isn't   | MI  | T  | Neither visible not in                        |            | 4%           |                            |          | Moderately invisibl                          | 4          | 5       |   |     |
| 2           |       |  | Additional burden on me.<br>If it concerns me I will If I am require to do it  | VI  | NI   | Invisbile<br>Moderately invisible             | 12%<br>6%  | 6%<br>10%    |                            |          | Very highly invisible<br>Total               | 4          | 8<br>49 |   |     |
|             |       |  | If it concerns me I will. If I am require to do it<br>Additional Burden  | VI  | NT<br>NT   | Moderately invisible<br>Very highly invisible | 6%<br>10%  | 10%          |                            |          | Grand total                                  | 49<br>98   | 49      |   |     |
|             |       |  | It depends on time. If I am stressed. There is a lot on my table, y  | MV  | T  | Total   | 10%        | 14%          |                            |          |  | -0         |         |   |     |
| 1           |       |  | I will do it. Directly or indirectly it is my problem  | V   | NT   | 10  |            |              |                            |          |  |            |         |   |     |
|             |       | 36   | Things can't be perfect. I convince my mind that you will come   | VH  | т  |   |            |              |                            |          |  |            |         |   |     |
|             |       | 37   | I will do it if it concerns me   | ٧   | т  |   |            |              |                            |          |  |            |         |   |     |
| ŝ.          |       | 38   | I wouldn't like to take extra load. Why always me?   | 1   | T  |   |            |              |                            |          |  |            |         |   |     |
|             |       |  | I will somehow do it   | MV  | NT   |   |            |              |                            |          |  |            |         |   |     |
|             | _     |  | I will surely do take it as my responsibility  |   |  |   |            |              | -                          |          |  |            |         |   |     |
| L           | _     |  | I al already with too much workload. I feel extra pressure   | MI  | NT   |   |            |              |                            |          |  |            |         |   |     |
|             | _     | 42   | I enjoy and it helps me get better   | VH  | T  |   |            |              |                            |          |  |            |         |   |     |
| ;           |       | 43<br>44   | I don't have any problem with extra task. I will try to solve it.<br>I do it for myself. Challenge for me  | MV<br>VH  | NT<br>T  |   |            |              |                            |          |  |            |         |   |     |
| 1           |       | 45   | Things are never casting in stone. If there is new development   | VH  | T  |   |            |              |                            |          |  |            |         |   |     |
|             |       | 46   | Its challenge and I would like to do if related to my field  | MV  | T  |   |            |              |                            |          |  |            |         |   |     |
| )           |       | 47   | It depends. I will do it if its in my area   | MV  | NT   |   |            |              |                            |          |  |            |         |   |     |
| Λ           |       | 48   | Its difficult to measure but difficulty in process is burden. Its pr   | Mi  | NT   |   |            |              |                            |          |  |            |         |   |     |
|             |       | 49   | If the problem is related to my area I will do all I can   | MV  | Ť  |   |            |              |                            |          |  |            |         |   |     |
|             |       |  | I feel solution required but sometimes I am annoyed. I do not w  |   | NT   |   |            |              |                            |          |  |            |         |   |     |
|             |       |  | I will solve and try but I Don't really enjoy when it is happening   |   | NT   |   |            |              |                            |          |  |            |         |   |     |
|             |       |  | My immediate effort to solve it. I see them my priority. Will do a   | MV  | NT   |   |            |              |                            |          |  |            |         |   |     |
| )           |       |  | All organizations are complex. There are problems but all could  |   | NT   |   |            |              |                            |          |  |            |         |   |     |
|             |       |  | I see them as problem and deal with it in a way to make best out   | NO.   | NT   |   |            |              |                            |          |  |            |         |   |     |
| N-          |       |  | Additional headache. When you are usually burden with your v<br>Annoys me. I get nervous. I simply don't like it   | VI  | T  |   |            |              |                            |          |  |            |         |   |     |
| •           |       |  | I feel depressed when problems incurr. It depresses me. I feel st  |   | ÷  |   |            |              |                            |          |  |            |         |   |     |
| (           |       |  | Concern of organization. If it comes in my domain. I will work on  | v   | Ŧ  |   |            |              |                            |          |  |            |         |   |     |
| •           |       |  | I feel additional burden. I really feel depress when things go ou  | i i   | Ť  |   |            |              |                            |          |  |            |         |   |     |
|             |       |  | I feel initated. I feel my blood circulation increase  | MI  | т  |   |            |              |                            |          |  |            |         |   |     |
|             |       |  | My biggest challenge. I am motivated to do something about it  | VH  | т  |   |            |              |                            |          |  |            |         |   |     |
|             |       |  | I will try immediately resolving it. I would like to ensure it is reso   |   |  |   |            |              |                            |          |  |            |         |   |     |
|             |       | 61<br>62   |  |   | т  |   |            |              |                            |          |  |            |         |   |     |
|             |       | 61<br>62<br>63   | I feel very annoyed. If any additional problems are imposed on   |   | T<br>T   |   |            |              |                            |          |  |            |         |   |     |
|             |       | 61<br>62<br>63<br>64   | I feel very annoyed. If any additional problems are imposed on I see them as problems and deal with them one by one. I think a   | MV  | T  |   |            |              |                            |          |  |            |         |   |     |
|             |       | 61<br>62<br>63<br>64<br>65   | I feel very annoyed. If any additional problems are imposed on a<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if it c  | MV<br>MV  | T<br>T<br>NT   |   |            |              |                            |          |  |            |         |   |     |
|             |       | 61<br>62<br>63<br>64<br>65<br>66   | I feel very annoyed. If any additional problems are imposed on a<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if it c<br>I regularly come across this situation. Sometimes I willingly do i  | MV<br>MV<br>MV  | T<br>T<br>NT<br>NT   |   |            |              |                            |          |  |            |         |   |     |
|             |       | 61<br>62<br>63<br>64<br>65<br>65<br>66<br>67   | I feel very annoyed. If any additional problems are imposed on<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if it c<br>I regularly come across this situation. Sometimes I willingly do in<br>Not sure   | MV<br>MV  | T<br>T<br>NT   |   |            |              |                            |          |  |            |         |   |     |
|             |       | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68   | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problem and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially fit it<br>I regularly come across this situation. Sometimes I willingly do in<br>Not sure<br>Type of stress. I aviod such things   | MV<br>MV<br>MV<br>NN<br>MI  | T<br>NT<br>NT<br>NT<br>NT  |   |            |              |                            |          |  |            |         |   |     |
|             |       | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69   | I feel very annoyed. If any additional problems are imposed on<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if it<br>I regularly come across this situation. Sometimes I willingly do<br>Not sure<br>Type of stress. I aviod such things<br>My concern. I will do all to solve it. Its my responsibility   | MV<br>MV<br>MV  | T<br>T<br>NT<br>NT<br>NT<br>T  |   |            |              |                            |          |  |            |         |   |     |
|             |       | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70   | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if it<br>I regularly come across this situation. Sometimes I willingly do i<br>Not sure<br>Type of stress. I aviod such things<br>My concern. I will do all to solve it. Its my responsibility<br>Additional stress. I dor't like it at all   | MV<br>MV<br>MV<br>NN<br>MI  | T<br>NT<br>NT<br>NT<br>NT  |   |            |              |                            |          |  |            |         |   |     |
|             |       | 61<br>62<br>63<br>64<br>65<br>65<br>66<br>67<br>68<br>69<br>70<br>71   | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problem and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially aft it<br>I regularly come across this situation. Sometimes I willingly do i<br>Not sure<br>Type of stress. I aviod such things<br>My concern. I will do all to solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>in my modules if there comes any problem, I do resolve it  | MV<br>MV<br>MV<br>NN<br>MI<br>VH<br>VH<br>VI<br>VI  | T<br>T<br>NT<br>NT<br>NT<br>T  |   |            |              |                            |          |  |            |         |   |     |
| р<br>Г<br>Ц |       | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72   | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if it<br>I regularly come across this situation. Sometimes I willingly do i<br>Not sure<br>Type of stress. I aviod such things<br>My concern. I will do all to solve it. Its my responsibility<br>Additional stress. I dor't like it at all   | MV<br>MV<br>MV<br>NN<br>MI<br>VH<br>VH<br>VI<br>VI  | T<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T   |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>73<br>74   | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if it c<br>I regularly come across this situation. Sometimes I willingly do i<br>Not sure<br>Type of stress. I aviod such things<br>My concern. I wild do all to solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idae. Not sure how do I feel often but its part of life. Probler<br>Sort of burden. I won't like it do it<br>A challenge forme and I and aways up for it   | MV<br>MV<br>MV<br>NN<br>MI<br>VH<br>VH<br>VI<br>VI  | T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>NT  |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75   | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if it<br>I regularly come across this situation. Sometimes I willingly do i<br>Not sure<br>Type of stress. I aviod such things<br>My concern. I will do all to solve it. Its my responsibility<br>Additional stress. I dor't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its part of life. Probler<br>Sort of burden. I won't like to do it<br>A challenge for me and I am always up for it<br>Extra pressure  | MV<br>MV<br>MV<br>NN<br>MI<br>VH<br>VI<br>V<br>NN<br>I<br>VH<br>VI  | T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>NT  |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76   | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if it of<br>I regularly come across this situation. Sometimes I willingly do i<br>Not sure<br>Type of stress. I aviod such things<br>My concern. I wild do all to solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its part of life. Probler<br>Sort of burden, I won't like it do it<br>A challenge for me and I am dways up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory   | MV<br>MV<br>MV<br>NN<br>MI<br>VH<br>VH<br>VI<br>VI  | T<br>NT<br>NT<br>NT<br>T<br>T<br>NT<br>T<br>NT   |   |            |              |                            |          |  |            |         |   |     |
| 1           | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77   | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if it<br>I regularly come across this situation. Sometimes I willingly do it<br>Not sure<br>Type of stress. I aviod such things<br>My concern. I will do all to solve it. Its my responsibility<br>Additional stress. I dor't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its part of life. Probler<br>Sort of burden. I wort like to do it<br>A challenge for me and I am always up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>II will be a challenge and I will do my best   | MV<br>MV<br>MV<br>NN<br>MI<br>VH<br>VI<br>VH<br>VI<br>VH<br>VI<br>VH<br>VI<br>VH<br>VI  | T<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>T<br>NT  |   |            |              |                            |          |  |            |         |   |     |
| ,           | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78   | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and deal with them one by one I think a<br>Problem is a problem and you should resolve it, especially if it of<br>I regularly come across this situation. Sometimes I willingly do i<br>Not sure<br>Type of stress. I aviod such things<br>My concern. I wild do all to solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idae. Not sure how do I feel often but its part of life. Probler<br>Sort of burden. I won't like to do it<br>Achallenge for me and I am alvays up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>It will be achallenge and I will do my best<br>It's a problem and I see it as estar load  | MV<br>MV<br>MV<br>NN<br>MI<br>VH<br>VI<br>V<br>NN<br>I<br>VH<br>VI  | T<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>T<br>NT<br>T<br>T<br>T<br>T<br>T   |   |            |              |                            |          |  |            |         |   |     |
| 1           | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79   | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if it<br>I regularly come across this situation. Sometimes I willingly do it<br>Not sure<br>Type of stress. I aviod such things<br>My concern. Uwild oal it os obvie it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its part of life. Probler<br>Sort of burden. I won't like to do it<br>A challenge for me and I am always up for it<br>Estra pressure<br>Very stressful. I will work if its compulsory<br>II will be a challenge and I will do my best<br>It's is my area I will deal with its les I won't   | MV<br>MV<br>MV<br>NN<br>MI<br>VH<br>VI<br>V<br>NN<br>I<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V   | T<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>T<br>T<br>T<br>NT  |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80                                     | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if it<br>I regularly come across this situation. Sometimes I willingly do it<br>Not sure<br>Type of stress. I avio d such things<br>My concern. I will do all to solve it. Its my responsibility<br>Additional stress. I dor't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its part of life. Probler<br>Sort of burden. I won't like to do it<br>A challenge for me and I am always up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory.<br>It will be a challenge and I will do my best<br>H's a problem and I see it as extra load<br>If if is in my area I will ded with it else I won't<br>Additional stress for m. I get tressed and feel over burdened  | MV<br>MV<br>MV<br>NN<br>MI<br>VH<br>VI<br>VH<br>VI<br>VH<br>VI<br>VH<br>VI<br>VH<br>VI  | T<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>T<br>NT<br>T<br>T<br>T<br>T<br>T   |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>980<br>81                                    | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if it<br>I regularly come across this situation. Sometimes I willingly do it<br>Not sure<br>Type of stress. I aviod such things<br>My concern. Uwild oal it os obvie it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its part of life. Probler<br>Sort of burden. I won't like to do it<br>A challenge for me and I am always up for it<br>Estra pressure<br>Very stressful. I will work if its compulsory<br>II will be a challenge and I will do my best<br>It's is my area I will deal with its les I won't   | MV<br>MV<br>MV<br>NN<br>MI<br>VH<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI  | T<br>T<br>NT<br>NT<br>NT<br>T<br>T<br>T<br>T<br>T<br>T<br>NT<br>T<br>T<br>NT   |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>980<br>81<br>82                              | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if it c<br>I regularly come across this situation. Sometimes I willingly do i<br>Not sure<br>Type of stress. I avio d such things<br>My concern. I will do all to solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its pat of life. Probler<br>Sort of burden. I work like to do it<br>A challenge for me and I am always up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>It will be a challenge and I will do my best<br>It's a my area i will deal with at lease I word<br>Additional stress for me. I get stressed and feel over burdened<br>Achallenge and I will do it   | MV<br>MV<br>MV<br>NN<br>MI<br>VH<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI  | T<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>N  |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>980<br>81<br>82<br>83<br>84                                    | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and you should resolve it, especially if it<br>I regularly come across this situation. Sometimes I willingly do it<br>Not sure<br>Type of stress. I aviod such things<br>My concern I wild oal it o solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idae. Not sure how do I feel often but its part of life. Probler<br>Sort of burden. I won't like it do it<br>A challenge for me and I am always up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>I will be a challenge and I will do my best<br>It's a myothem al used law my best<br>It's a problem and I see it as extra load<br>I fifs in my area I will de al with it leas I won't<br>Additional stress For me. I get stressed and feel over burdened<br>A challenge and I will do it<br>II depends on what it is. We are all here for some work so if its or<br>I will nove only if reguired. If its important else won't like it<br>I will problem and is see it and I see it as the stressed and feel over burdened<br>A challenge and I will do it II depends on what it is. We are all here for some work so if its or<br>I will myolve only if required. If its important else won't like it<br>I will provide my difficure it is mortant else won't like it I will work if its in my area I here for some work so if its or<br>I will myolve only if required. If its important else won't like it I will work if its in my area I here for some work is of its or<br>I will myolve only if required. If its important else won't like it I will work it is the see I won't like it I will work it is the see I won't like it I will work will be won't like it I will work it is the see I won't like it I will work will be won't like it I will work will be won't like it I will work it is the see I won't like it I will work will be won't like it I will work will be won't like it I will work will be won't like it I will be won't like it I will work will will be won't like it I will work will will b | MV<br>MV<br>MV<br>MI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI  | T<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT  |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>80<br>81<br>82<br>83<br>84<br>85                               | I feel very annoyed. If any additional problems are imposed on<br>I see them as problems and deal with them one by one 1 think as<br>Problem is a problem and you should resolve it, especially if it or<br>I regularly come across this situation. Sometimes I willingly do i<br>Not sure<br>Type of stress. I aviod such things<br>My concern. I wild do alt to solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem. I do resolve it<br>No idea. Not sure how do I feel often but its part of life. Probler<br>Sort of burden. I won't like to do it<br>A challenge for me and I am dways up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>It will be a challenge and I will do my best<br>Hr's a problem and I see it a set rate stores do<br>Hi's a problem and I see it a set trassed and<br>Hi's in my areal I will de with it else I wort<br>Additional stress for me. I get at trassed and feel over burdened<br>A challenge and I will do it<br>It depends on what it is. We are all here for some work so if its a<br>I will novive only if required I if its important else wort like it<br>Additional burden<br>I don't think we can do much. We can find another job. Extra loo.  | MV<br>MV<br>MV<br>MI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI  | T<br>T<br>NT<br>NT<br>NT<br>T<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>T<br>T   |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>80<br>81<br>82<br>83<br>84<br>85<br>86       | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and you should resolve it, especially if to<br>I regularly come across this situation. Sometimes I willingly do it<br>Not sure<br>Type of stress. I aviod such things<br>My concern. I will do all to solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its part of life. Probler<br>Sort of burden. I wort like to do it<br>A challenge for me and I am always up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>II via ble a challenge and I will do my best<br>If is in my rate 1 will de all tho story<br>If is in my rate 1 will de all tho its less I won't<br>Additional stress for me. I get stressed and feel over burdened<br>A challenge and I will do it<br>It depends on what it is. We are all here for some work so if its I<br>will involve only frequired. If its important else won't like it<br>I don't link we can do much. We can find another job. Extra lot<br>I try to be positive and work out a way   | MV<br>MV<br>MV<br>NN<br>NN<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI  | T<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>T<br>NT<br>T<br>T<br>T<br>T<br>T  |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87 | I feel very annoyed. If any additional problems are imposed on<br>I see them as problems and deal with them one by one 1 think as<br>Problem is a problem and you should resolve it, especially if it or<br>I regularly come across this situation. Sometimes I willingly do i<br>Not sure<br>Type of stress. I aviod such things<br>My concern. Uwild oal to solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idae. Not sure how do I feel often but its part of life. Probler<br>Sort of burden. I won't like to do it<br>Achallenge for me and I am alvays up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>It will be a challenge and I will do my best<br>It's a problem and I see it as ettressed and feel over burdened<br>Additional stress for me. I get stressed and feel over burdened<br>Additional stress for me. I get stressed and feel over burdened<br>Additional burden I will do it<br>It depends on what it is. We are all here for some work so if its a<br>I will novice only if required. If its important else work this do it<br>Additional burden I<br>don't think we can do much. We can find another job. Extra lost<br>I'n y be positive and work out a way<br>It will to be positive and work out a way<br>It we stress holes on the set is a stressed. If its in portant lese work the is the<br>Additional burden<br>I don't think we can do much. We can find another job. Extra lost<br>I'n y to be positive and work out a way<br>It we extra burden  | MV<br>MV<br>MV<br>MI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI  | T<br>T<br>NT<br>NT<br>NT<br>T<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>T<br>T   |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88 | I feel very annoyed. If any additional problems are imposed on<br>I see them as problems and deal with them one by one. I think as<br>Problem is a problem and you should resolve it, especially if it of<br>I regularly come across this situation. Sometimes I willingly do it<br>Not sure<br>Type of stress. I avio if such things<br>My concern. I will do all to solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its part of life. Problet<br>Sort of burden. I work like to do it<br>A challenge for me and I am always up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>It will be challenge and I will do my best<br>It's a my area i will deal with it else I wort<br>Achallenge for will deal with it else I wort<br>A challenge and I will do it<br>I depends on what it is. We are all here for some work so if its I<br>Additional burden<br>I don't think we can do much. We can find another job. Extra lor<br>I my to be positive and work out a way<br>Its extra burden<br>A challenge. I ke doing it   | MV<br>MV<br>MV<br>NN<br>NN<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI  | T<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>N  |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>80<br>81<br>82<br>83<br>84<br>85<br>88<br>88<br>88<br>88       | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and deal with them one by one. I think a<br>Problem is a problem and you should resolve it, especially if t<br>I regularly come across this situation. Sometimes I willingly do it<br>Not sure<br>Type of stress. I aviof such things<br>My concern. I will do all to solve it. Its my responsibility<br>Additional stress. I dor't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its part of life. Probler<br>Sort of burden. I wort like to do it<br>A challenge for me and I am always up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>II will be a challenge and I will do my best<br>It's a myothem al used law the les I wont<br>Additional stress for me. I get stressed and feel over burdened<br>A challenge and I will do it<br>It depends on what it is. We are all here for some work so if its o<br>I will novaki the set and there it so wort is it will to<br>Additional stress for me. I get stressed and feel over burdened<br>A challenge and I will do it<br>It depends on what it is. We are all here for some work so if its o<br>I will novake only if required. If its important else wort like it<br>I don't think we can de much. We can find another job. Extra los<br>I try to be positive and work out a way<br>Its extra burden<br>A challenge. I like doing it<br>I have wide area. I ma dways open to challenges. I lenjoy it  | MV<br>MV<br>MV<br>NN<br>NN<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI  | T<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT  |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>71<br>72<br>73<br>74<br>75<br>77<br>78<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>90             | I feel very annoyed. If any additional problems are imposed on<br>I see them as problems and deal with them one by one. I think as<br>Problem is a problem and you should resolve it, especially if it of<br>I regularly come across this situation. Sometimes I willingly do i<br>Not sure<br>Type of stress. I avio if such things<br>My concern. I will do all to solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its pat of life. Problet<br>Sort of burden. I work like to do it<br>A challenge for me and I am always up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>II will be a challenge and I will do my best<br>It's a problem and I see it as extra load<br>If if's in my area I will deal with it else I won't<br>Additional stress For me. I get stressed and feel over burdened<br>A challenge and I will do it<br>I depends on what it is. We are all here for some work so if its I<br>Additional burden<br>I don't think we can do much. We can find another job. Extra lor<br>I my to be positive and work out a way<br>Its extra burden<br>A challenge. I ke doing it<br>I have wide area. I am always open to challenges. I enjoy it<br>I have wide area. I am always open to challenges. I enjoy it<br>I have wide area. I am always open to challenges. I enjoy it<br>I have wide area. I am always open to challenges. I enjoy it<br>I have wide area. I am always open to challenges. I enjoy it<br>I have wide area. I am always open to challenges. I enjoy it<br>I have wide area. I am always open to challenges. I enjoy it<br>I and think we can I am always open to challenges. I enjoy it<br>I have wide area. I am always open to challenges. I enjoy it<br>I have wide area. I am always open to challenges. I enjoy it<br>I and think we can I am always open to challenges. I enjoy it<br>I and think we can I and the ot all   | MV<br>MV<br>MV<br>NN<br>NN<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI  | T<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>N  |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>71<br>72<br>73<br>74<br>75<br>77<br>78<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>89<br>90<br>91             | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and you should resolve it, especially if it<br>I regularly come across this situation. Sometimes I willingly do it<br>Not sure<br>Type of stress. I aviod such things<br>My concern. I will do all to solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idae. Not sure how do I feel often but its part of life. Problet<br>Sort of burden. I won't like to do it<br>A challenge for me and I am always up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>II will be a challenge and I will du my best<br>It's a problem and I see it as extra load<br>If ifs in my area I will de with it is les I won't<br>Additional stress For me. I get stressed and feel over burdened<br>A challenge and I will do it<br>II depends on what it is. We are all here for some work so if its or<br>I will move only if required. If its important else won't like it<br>Additional uterin<br>I don't thick we can do much. We can find another job. Extra load<br>I try to be positive and work out a way<br>Its entra burden<br>I don't thick we can do much. We can find another job. Extra load<br>I try to be positive and work out a way<br>Its entra burden<br>I and thenge. I like doing it<br>I haw wide area. I ma dways open to challenges. I enjoy it<br>I po with group. I will solve it for all  | MV<br>MV<br>MV<br>NN<br>NN<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI<br>VI  | T<br>T<br>NI<br>NI<br>NI<br>T<br>T<br>NI<br>T<br>NI<br>T<br>T<br>NI<br>T<br>T<br>T<br>NI<br>T<br>T<br>T<br>NI<br>T<br>T<br>T<br>NI<br>T<br>T<br>T<br>NI<br>T |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and you should resolve it, especially if it<br>I regularly come across this situation. Sometimes I willingly do it<br>Not sure<br>Type of stress. I aviod such things<br>My concern Lwild oal It o solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idae. Not sure how do I feel often but its part of life. Probler<br>Sott of burden. I won't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idae. Not sure how do I feel often but its part of life. Probler<br>Sott of burden. I won't like to do it<br>A challenge for me and I an always up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>II's a problem and I see it as extra load<br>II's a problem and I see it as extra load<br>II's in my area I'will deal with it lee I won't<br>Additional stress for me. I get stressed and feel over burdened<br>A challenge and I will do it<br>I they only direquired. If its important else won't like it<br>Additional turden<br>I don't thick we can do much. We can find another job. Extra lost<br>I try to be positive and work out a way<br>Its extra burden<br>A challenge. I like doing it<br>I have wide area. I am daway open to challenges. I enjoy it<br>I go with group. I will olse it for all<br>I to bit move only if required. If it simportant else won't like it<br>Jost to positive and work out a way<br>Its estra burden<br>A challenge. I like doing it<br>I have wide area. I am daway open to challenges. I enjoy it<br>I go with group. I will olse it for all<br>I to bit moreal posen and it like in to look at it. Why should I waste<br>So thims an posen and its fit nos to fit its most of fit its most of fit in gone and for it. J ont  | MV/<br>MV/<br>N/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/  | T<br>T<br>NT<br>NT<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT  |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | I feel very annoyed. If any additional problems are imposed on<br>I see them as problems and deal with them one by one. I think as<br>Problem is a problem and you should resolve it, especially if it or<br>I regularly come across this situation. Sometimes I willingly do it<br>Not sure<br>Type of stress. I aviof such things<br>My concern. I wild do alt to solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its part of life. Problem<br>Sort of burden. I won't like it at all<br>A challenge for me and I am advays up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>It will be a challenge and I will do my best<br>If is a problem and I see it a sert load<br>If is in my areal used with it else I work<br>Additional stress for me. I get stressed and feel over burdened<br>Achallenge and I will do wy best<br>It's a problem and I see it a sert load<br>If if is in my area I will do with it else I work<br>Additional burden<br>I don't think we can do much. We can find another job. Extra lost<br>Ity be positive and work out a way<br>Its entra burden<br>Achallenge. I like doing it<br>I have wolk area. I am davays open to challenges. I enjoy it<br>I pays to low ananger and it bin to look at it. Why whould I wast<br>Such tings happen all the time. I most of the time strands for it. I don't<br>fits in my department and if it touches me load<br>fits in my donant I will to evolve it for all<br>fits in my donant in will to evolve it and<br>Such tings happen all the time. I most of the time strands for it. I don't<br>fits in my donant I will be very strengt it. J don't<br>fits in my donant I will to evolve it for all<br>fits in my donant I will to evolve it and<br>Such tings happen all the time. I most of the time strands for it. I don't<br>fits in my donant I will to revolve it just pool I most for all<br>fits in my donant I will to revolve just just pool in most for it. I don't<br>fits in my donant I will to revolve just just just pool I most for all were | MV/<br>MV/<br>N/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/<br>V/  | T<br>T<br>T<br>NT<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>T<br>NT<br>T<br>T<br>T<br>T<br>T   |   |            |              |                            |          |  |            |         |   |     |
|             | FEMAL | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>71<br>72<br>73<br>74<br>75<br>77<br>78<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>70<br>91<br>92<br>93<br>95 | I feel very annoyed. If any additional problems are imposed on:<br>I see them as problems and you should resolve it, especially if to<br>I regularly come across this situation. Sometimes I willingly do it<br>Not sure<br>Type of stress. I aviod such things<br>My concern. Uwild oal to solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its part of life. Probler<br>Sort of burden. I wort like to do it<br>A challenge for me and I am always up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>It will be a challenge and I will do my best<br>It's a my oral will deal with osity it lees uwoit<br>I'd appolem and I see it as extra load<br>If's in my areal will deal with the lees I won't<br>Additional stress for me. I get stressed and feel over burdened<br>A challenge and I will do it<br>It depends on what it is. We are all here for some work so if its I<br>will involve only if required. If its important else won't like it<br>Additional burden<br>I don't thick we can do much. We can find another job. Extra loc<br>I try to be positive and work out a way<br>Its extra burden<br>A challenge and I will do it it to move the it<br>A challenge. I like doing it<br>I hare wide area. I am always open to challenges. I enjoy it<br>I pow ith group. I will solve it for all<br>Papowith group. I will solve it for all<br>I pow it mongen all the lime to lock at it. Why should I waste<br>Such things happen all the time. To all of the its my domain I will try resolving it<br>We have a team leafer. We go there  | MV           MV           MV           MV           MI           MI           VI           VI | T<br>T<br>T<br>T<br>NT<br>NT<br>NT<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T  |   |            |              |                            |          |  |            |         |   |     |
| 1           | FEMAL | $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | I feel very annoyed. If any additional problems are imposed on<br>I see them as problems and deal with them one by one. I think as<br>Problem is a problem and you should resolve it, especially if it or<br>I regularly come across this situation. Sometimes I willingly do it<br>Not sure<br>Type of stress. I aviof such things<br>My concern. I wild do alt to solve it. Its my responsibility<br>Additional stress. I don't like it at all<br>In my modules if there comes any problem, I do resolve it<br>No idea. Not sure how do I feel often but its part of life. Problem<br>Sort of burden. I won't like it at all<br>A challenge for me and I am advays up for it<br>Extra pressure<br>Very stressful. I will work if its compulsory<br>It will be a challenge and I will do my best<br>If is a problem and I see it a sert load<br>If is in my areal used with it else I work<br>Additional stress for me. I get stressed and feel over burdened<br>Achallenge and I will do wy best<br>It's a problem and I see it a sert load<br>If if is in my area I will do with it else I work<br>Additional burden<br>I don't think we can do much. We can find another job. Extra lost<br>Ity be positive and work out a way<br>Its entra burden<br>Achallenge. I like doing it<br>I have wolk area. I am davays open to challenges. I enjoy it<br>I pays to low ananger and it bin to look at it. Why whould I wast<br>Such tings happen all the time. I most of the time strands for it. I don't<br>fits in my department and if it touches me load<br>fits in my donant I will to evolve it for all<br>fits in my donant in will to evolve it and<br>Such tings happen all the time. I most of the time strands for it. I don't<br>fits in my donant I will be very strengt it. J don't<br>fits in my donant I will to evolve it for all<br>fits in my donant I will to evolve it and<br>Such tings happen all the time. I most of the time strands for it. I don't<br>fits in my donant I will to revolve it just pool I most for all<br>fits in my donant I will to revolve just just pool in most for it. I don't<br>fits in my donant I will to revolve just just just pool I most for all were | MV           MV           MV           MV           MI           MI           VI           VI | T<br>T<br>T<br>NT<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>NT<br>T<br>T<br>T<br>T<br>T<br>T   |   |            |              |                            |          |  |            |         |   |     |

| MALE   | 1<br>2   | Responses<br>Being loyal and true to yourself. Yes, to some level. To some extent I   |          |    | Themes                      | Letter co       | de                  | Statisitc                                  |            | Statisitc                                  |      |        | Statisitc                                  |   |
|--------|----------|---|----------|----|-----------------------------|-----------------|---------------------|--|------------|--|------|--------|--|---|
|        | 2        |   |          | T  | High Visibility             | VH              |                     | Frequency                                  |            | Frequency                                  |      |        | Frequency                                  | - |
|        |          | Great asset. Not too much but some really are loyal to their work. Ve   | VL       | T  | Moderate visibility         | MV              |                     | High Visibility                            | 31         | High Visibility                            | 14   | -      | High Visibility                            |   |
|        | 3        | Good to be. Not much. 20%, very little  | VL.      | Ť  | Very low Visibility         | VL              |                     | Moderate visibility                        | 31         | Moderate visibility                        | 17   |        | Moderate visibility                        |   |
|        | 4        | Life with principles. Yes, Very much, say 80%   | VH       | Т  | Not visible at all          | N               |                     | Very low Visibility                        | 21         | Very low Visibility                        | 10   |        | Very low Visibility                        |   |
|        | -        | Good to have. Very little. Very little  | VI.      | Ŧ  |                             |                 |                     | Not visible at all                         | 15         | Not visible at all                         | 8    |        | Not visible at all                         |   |
|        | 6        | Good to have, very little very little   | VL       | Ť  |                             |                 |                     | Total                                      | 98         | Total                                      | 49   |        | Not visible at all<br>Total                | T |
| _      |          |   |          |    |                             |                 |                     |  |            |  |      |        |  |   |
|        | 7        | Vital. Yes, 80% employees have it   | VH       | Т  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 111.27   |   |          | -  |                             |                 |                     |  |            |  |      |        |  |   |
| _      | 8        | Vital. Not much. To some level  | MV       | Т  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 9        | Biggest achievement to have loyalty. Yes, A low. 70%  | VH       | Т  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 10       | Being sincere to your assigned tasks, To some extent. 50%   | MV       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 44       | Staying with same organization. No I don't see. Anyone having oppo  | N        | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        |          | Being loyal to one's self. Not much. Very low   | 17       | NT |                             | Teaching        | Non-teaching        |  |            |  |      |        |  |   |
|        | - 22     |   |          |    | -                           | reaching        | , won-rearning      |  |            |  |      |        |  |   |
| _      | 13       | Very important. Yes. Highly visible   | VH       | NT | High Visibility             | 12              | 19                  | OVERALL                                    |            | FEMALE                                     |      |        | MALE                                       |   |
|        | 14       | Not in practice. Yes, but not too much. 50-60%  |          |    | Moderate visibility         | 18              | 13                  | Proportion                                 |            | Proportion                                 |      |        | Proportion                                 |   |
|        | 15       | Job loyalty is like a person remaining loyal to given tasks. Sometimes<br>This is essential component. Yes, to some extent. To some extent it is      | MV       | NT | Very low Visibility         | 10<br>9         | 11                  | High Visibility                            | 32%        | High Visibility                            | 29%  |        | High Visibility                            |   |
| _      | 16       | Very important. Not very much. Less   | MIV      | NT | Not visible at all<br>Total | 49              | 6<br>49             | Moderate visibility<br>Very low Visibility | 32%<br>21% | Moderate visibility<br>Very low Visibility | 35%  |        | Moderate visibility<br>Very low Visibility |   |
|        | 18       | It's a term for person who is sincere to his work. Very much. 70% pl  | VH       | NT | Grand Total Respond         |                 |                     | Not visible at all                         | 15%        | Not visible at all                         | 16%  |        | Not visible at all                         |   |
|        | 19       | Very essential. Yes I do see it. Very highly visible 80%  | VH       | Т  |                             |                 |                     | Total                                      | 100%       | Total                                      | 100% | 1      | Total                                      |   |
| _      | 20       | Important but depends on how are treated. Not much insidere. Very 1   | VL       | T  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 21       | Yes. I see it. Very low   |          | NT |                             | -               |                     |  |            |  |      |        |  |   |
|        | 22       | Yes. 50% are loyal<br>Indeed important. I can see it. 90% are loyal   | VH       | NT | High Visibility             | Teaching<br>24% | Von-teaching<br>39% |  |            |  |      |        |  |   |
|        | 23       | Key charatecteristic of job. Very much visible in this organisation. 80   | VH       | NT | Moderate visibility         | 37%             | 27%                 |  |            |  | Male | Female |  |   |
|        | 25       | Vital. Yes, I do see. Its very visible  | VH       | Т  | Very low Visibility         | 20%             | 22%                 |  |            | High Visibility                            | 17   | 14     |  |   |
| MALE   | 26       | Extremely important. Lets say 50%. To some extent it is visible   | MV       | Т  | Not visible at all          | 18%             | 12%                 |  |            | Moderate visibility                        | 14   | 17     |  |   |
|        | 27       | I am very loyal but not all. They will move out if they got chance but  | VH       | NT | Total                       | 100%            | 100%                |  |            | Very low Visibility                        | 11   | 10     |  |   |
|        | 28       | Very important. Majority have it. Very visible. I will say 70, 80%<br>It's important but I can't define it in words. Yes, people are loyal here       | VH       | NT |                             |                 |                     |  |            | Not visible at all<br>Total                | 7 49 | 8      |  |   |
|        | 30       | Very very vital. I can see it inside but not much yes moderate level vi   |          | T  |                             |                 |                     |  |            | Grand total                                | 98   |        |  |   |
|        | 31       | Loyalty is important but it is not much visible. 30% might be loyal in  | VL       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 32       | Yes, definitely important. Yes, people enjoy here, stay late. It shows  | VH       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 33       | Very important. Definitely. Some are loyal, some are not. Its difficult   | VH       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 34       | Its very specific. Some are more loyal in some industires. You have to<br>There is no job loyalty. When good chance come people move. Not v           | N        | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 36       | Yes, its subjective in measuring but you can see here. 65% might have   | MV       | Т  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 37       | To me its very important. Some are, some aren't. Visible to some exte   | MV       | Т  |                             |                 |                     |  |            |  |      |        |  |   |
| _      | 38       | Yes, it is very important to have loyalty to subject not to institution.  | MV       | Т  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 39       | Yes, it is important. They are not very loyal due to disatisfaction and   |          |    |                             |                 |                     |  |            |  |      |        |  |   |
| _      | 40       | Oh yes, important feature of job. I would say irs average here. Mode<br>Important but employer should do something to please workers too.             | N        | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 42       | Essential. To some extent it is present. Mredium  | MV       | Т  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 43       | Yes, academic reterntion is higher but other departments have lower.  | VH       | NT | -                           |                 |                     |  |            |  |      |        |  |   |
|        | 44       | Personally I think I am loyal to my work but that doesn't help. No or   | N        | Т  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 45       | Absolutely important but thing is it has two dimensions. Staff may w<br>Yes, important but employer has to be loyal as well. To some extent           | N        | T  |                             |                 |                     |  |            |  |      |        |  | + |
|        | 46       | I really think it doesn't exist in academic world. Not at all. Not at all   | N        | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 48       | I think loyalty is earned. Its not right to expect from employees or an   |          | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 49       | Its not common. All wants better chances. No I don't see it. Not at al  | N        | Т  |                             |                 |                     |  |            |  |      |        |  |   |
| FEMALE |          | Very important. Yes, Quite visible  | MIV      | NT |                             |                 |                     |  |            |  |      |        |  |   |
| _      |          | Text book things. Very little. Say loke 30% still have it<br>Great asset. Yes. Very much  | VL<br>VH | NT |                             |                 |                     |  |            |  |      |        |  |   |
| -      |          | Very vital. Yes. Very visible   | VH       | NT | -                           |                 |                     |  |            |  |      |        |  |   |
| _      |          | Essential. Yes. Yes, very highly visible  | VH       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 55       | Essential. Yes. To some extent  |          | NT |                             |                 |                     |  |            |  |      |        |  |   |
| _      |          | Good to have. Sometimes. Little   | VL       | T  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 57       | Very essential. Yes, it is present. Very much, 80%<br>Being loyal towards yor work, your institution. Yes, Very much                                  | VH<br>VH | T  |                             |                 |                     |  |            |  |      |        |  |   |
| -      | 59       | Loyal to all at work. To some extent. Very much, 60%  | MV       | T  |                             |                 |                     |  |            |  |      |        |  |   |
|        |          | Good to have it, Yes, Very high   | VH       | T  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 61       | Loyal to work, workplace. Yes, to some extent   | VL.      | Т  |                             |                 |                     |  |            |  |      |        |  |   |
| _      | 62       | Very very essential to be loyal. To some level. Very little like 2/6 hav  | VL       | T  |                             |                 |                     |  |            |  |      |        |  |   |
| -      | 63       |   | N        | T  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 65       | Good to have. Not much. 50% or less. Like 30% to 40% really have i<br>Good to be loyal but its two way process. I do see its visible here to          | VI       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 66       | Very very important. Yes most are loyal. See I have been here since 1   | VH       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        |          | Its important but No I don't see. Not at all  | N        | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        |          | very important. Yes, I do see it. Very visible  | VH       | NT |                             |                 |                     |  |            |  |      |        |  |   |
| _      | 69<br>70 | Important. No second thought about it. Yes. Moderately visible<br>Its not professionalism. You have to look for best options. No, Its no              | MV       | NT | -                           |                 |                     |  |            |  |      |        |  |   |
|        | 71       | Important. To some extent visible like 60%  | MV       | T  |                             |                 |                     |  |            |  |      |        |  | + |
|        | 72       | Important. Yes, I do see. 50%   | MV       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 73       | Job loyalty is important. I do take it serious. I see it here. Very highly v  | VH       | T  |                             |                 |                     |  |            |  |      |        |  |   |
| EMALE  |          | Very Important. Not really visible. We are only four team member. I<br>It is very important but could depend on how employee is viewing or            | VL       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 75       | It is very important but could depend on how employee is viewing or<br>Can't say but it not important nowadays. No I don't see it. Not at all         | N        | T  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 77       | Yes, it is. I do see it inside. Avergage  | MV       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 78       | It doesn't exist. No. Not at all  | N        | T  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 79       | Yes. It's Important. Yes, 50%. Some of them yes they have and some  | MV       | NT |                             |                 |                     |  |            |  |      |        |  | + |
|        | 80<br>81 | Very important. Both way shall work. People should be loval and on<br>Very important. If you think its not my job, its bad attitude. I see it i       | MV       | T  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 82       | Yes important. Yes to some extent. 40%  | VL       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 83       | Yes vital. Yes I can see it. People here from long time and work bevor  | VH       | T  |                             |                 |                     |  |            |  |      |        |  |   |
|        |          | Very important. No I don't see it here. Not visible at all. Its high turn<br>I don't haliana in it. We care is important but it descelt work. So more | N        | Ţ  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 85       | I don't believe in it. We say is important but it doesn't work. So many<br>I have been here for 10 years. To our team and work I have sense of t      | VH       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 87       | It is. Yes I see it here. 60%   | MV       | T  | -                           |                 |                     |  |            |  |      |        |  |   |
|        | 88       | It's really important but some are not loval. Yes, inside this organisat  | MV       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 89       | Yes job loyalty is important. I can't say how visible it is inside this of  | MV       | т  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 90       | I am loyal too much especially to my students. It is more important t   | VL       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 91       | Very difficult to answer. Lot of competition. Colleagues are not hone<br>Yeah its important. Yes it is inside here and moderately visible 65%         | N        | T  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 92       | If there is no jo loyalty, how you will you work. You have to be conf   | MV       | T  |                             |                 |                     |  |            |  |      |        |  | + |
|        | 94       | Indeed very important aspect of job. I see inside but moderately visit  | MV       | Ť  |                             |                 |                     |  |            |  |      |        |  |   |
|        | 95       | Yes, its important. Yes, I see it. A lot of people are here from long tir   | VH       | NT |                             |                 |                     |  |            |  |      |        |  |   |
|        | 96       | Obviously, yes, Can't count but I can clearly see. Its very visible   | VH       | NT |                             |                 |                     |  |            |  |      |        |  |   |
| _      |          | From my point of view, its good to be loyal. Yes, people are loyal. 6<br>Not really important. There are people who are here since long time.         |          | N  |                             |                 |                     |  |            |  |      |        |  |   |

|        |        | Overall effectiveness of st<br>Responses   | ress management program inside orga   | nization | T        | hemes                        | Letter c | ode        | OVERALL<br>Statisite            |            | FEMALE<br>Statisite             |             |         | MALE<br>Statisite           |           |
|--------|--------|--|---|----------|----------|------------------------------|----------|------------|---------------------------------|------------|---------------------------------|-------------|---------|-----------------------------|-----------|
|        | MALE   | 1 Sorry can't measure but most o   | of the time   | VE       | T. V.    | ery Effective                | VE       |            | Frequency                       |            | Frequency                       |             |         | Frequency                   |           |
|        |        | 2 Never used   |   | NU       |          | fective                      | E        |            | Very Effective                  | 12         | Very Effective                  | 8           |         | Very Effective              |           |
|        |        | <ol> <li>Not much</li> <li>I have used. Yes. It does help</li> </ol>                                 |   | E        |          | omewhat Effective<br>ot sure | SE<br>P  |            | Effective<br>Somewhat Effective | 19<br>22   | Effective<br>Somewhat Effective | 5           |         | Effective<br>Somewhat Ef    | 14        |
| ,      |        | 5 To some level. Yes its useful  | 1   | SE       |          | ever used                    | NU       |            | Not sure                        | 12         | Not sure                        | 6           |         | Not sure                    | 6         |
|        |        | 6 Not officially but they are con  |   | SE       |          | effective                    | 1        |            | Neverused                       | 18         | Never used                      | 10          |         | Never used                  | 8         |
|        |        | 7 Yes but very little. Yes a bit. L  | ittle but effective   | SE       | Т        |                              |          |            | Ineffective                     | 15         |                                 | 7           |         | Ineffective                 | 8         |
|        |        | 8 No   |   | 1        | T        |                              |          |            | Total                           | 98         | Total                           | 49          |         | Total                       | 49        |
| -      |        | 9 Very productive<br>10 Never  |   | NU       | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 11 I never used any. No idea   |   |          | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 12 Yes. Yes. A lot   |   | VE       | NT       |                              | Teaching | n-teachi   | ng OVERALL                      |            |                                 |             |         |                             |           |
|        |        | 13 No. The one they have is usel   | ess. Yes. Not at all  | 1        | NT V     | ery Effective                | 9        | 3          | Proportion                      |            | FEMALE                          |             |         | MALE                        |           |
|        |        | 14 I never used one  |   | NU       |          | fective                      | 10       | 9          | Very Effective                  | 12%        | Proportion                      | 10.         |         | Proportion                  |           |
|        |        | <ul> <li>Yes. Yes. To some extent</li> <li>I have some sessions and I feel</li> </ul>                | its mits affective  | SE       |          | omewhat Effective<br>ot sure | 11<br>6  | 11         | Effective<br>Somewhat Effective | 19%<br>22% | Very Effective<br>Effective     | 16%<br>10%  | -       | Very Effective<br>Effective | 8%<br>29% |
|        |        | 17 I never believe in it. It cannot  | help you until you help yourself  | 1        |          | ever used                    | 8        | 9          | Not sure                        | 12%        | Somewhat Effective              | 27%         |         | Somewhat Ef                 |           |
|        |        | 18 Yes. Yes. Of course reduces my  | y immediate stress  | E        |          | effective                    | 5        | 10         | Neverused                       | 18%        | Notsure                         | 12%         |         | Not sure                    | 12%       |
|        |        | 19 I never used. Can't say if its ef   |   | NU       |          | otal                         | 49       | 49         | Ineffective                     | 15%        | Never used                      | 20%         |         | Neverused                   | 16%       |
|        | _      | 20 Never used and not sure about<br>21 Not sure  | its effectiveness   | NU       | G        | rand Total Resp              | 98       |            | Total                           | 100%       | Ineffective<br>Total            | 14%<br>100% |         | Ineffective                 | 16%       |
|        |        | 21 Not sure<br>22 Never used any such program  |   | NU       | NT       |                              |          |            |                                 |            | Total                           | 100%        |         | Total                       | 100%      |
|        |        | 23 Never ever used   |   |          | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 24 Yes, I have used but not effect   | ive   |          | NT       |                              |          |            |                                 |            |                                 | Male        | Female  |                             |           |
|        |        | 25 Its effective   |   | E        | (T)      |                              |          | n-teachi   | ng                              |            | Very Effective                  | 4           | 8       |                             |           |
| 4      | MALE   | Absolutely it will be very usefu   | 4   | VE       |          | ery Effective                | 18%      | 6%         |                                 |            | Effective                       | 14          | 5       |                             |           |
|        |        | <ul><li>27 Yes it help definitely.</li><li>28 At that time it was effective.</li></ul>               |   | E<br>SE  | NT Ef    | fective<br>omewhat Effective | 20%      | 18%<br>22% |                                 |            | Somewhat Effective<br>Not sure  | 9           | 13<br>6 |                             |           |
|        |        | 29 I have never used it but I think  | : it could be of good help  | SE       |          | ot sure                      | 12%      | 14%        |                                 |            | Never used                      | 8           | 10      |                             |           |
|        |        | 30 I think it is somewhat effectiv   | e. Again you see it is a personal thing. If you   | SE       | T N      | ever used                    | 16%      | 18%        |                                 |            | Ineffective                     | 8           | 7       |                             |           |
|        | _      | 31 Ineffective   |   |          |          | effective                    | 10%      | 20%        |                                 |            | Total                           | 49          | 49      |                             |           |
|        |        | <ul> <li>32 I know here it is but I never tr</li> <li>33 No. I never used but I would lib</li> </ul> | ied it. Yes more to immediate issues. Effectiv  | E        | NT T     | otal                         | 100%     | 100%       |                                 |            | Grand total                     | 98          |         |                             |           |
|        | -      |  | te to think its effective yes<br>It could be effective why not. Other might th                | P        | T        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 35 I think they do have it. I neve   | r used it . Not sure  | P        | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        |  | ing. I hadn't used any myself. Yes, it coulb b  | P        | Т        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        | _      | 37 None. No, I never used. Yes pr  | robably its effective one<br>I workshop regarding meeting deadline create                     | SE       | T        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | <ul> <li>Yes, there are some occasiona</li> <li>Partially</li> </ul>                                 | workshop regarding meeting deadline create  | SE       | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 40 Not sure  |   | P        | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 41 Not much of use   |   | 1.1      | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 12 Its useful  |   | E        | T        |                              |          |            |                                 |            |                                 | _           |         |                             |           |
|        |        | 43 It doesn't help<br>44 Nothing No I hado't used No.  | if you know there is one. Not sure if it helps  | D        | NT<br>T  |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | <ul> <li>14 Nothing. No I hadn't used. No</li> <li>15 It could be useful</li> </ul>                  | in you know mere is one. Not sure if it helps   | E        | T        |                              |          |            |                                 |            |                                 |             |         |                             |           |
| )<br>) |        | 46 Useflul   |   | E        | T        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 47 Useflul   |   | E        | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        |  | program and even helps you if you are feelin  | E        | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        | FEMALE | <ul> <li>I have used it but its not effect</li> <li>No. I would love to use one. I</li> </ul>        | nve. It is a temporary solution   | NU       | T        |                              |          |            |                                 |            |                                 | -           |         |                             |           |
| 1      |        | 50 No. 1 would love to use one. 1<br>51 Great help. Too much helpful                                 | and the or map  | VE       | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 52 Very much   |   | VE       | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 53 I find my stress reduced  |   | E        | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        | -      | 11 helped me overcome my der   | motivation by giving positive vibes<br>ill be productive to educate staff about stress        | E        | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 55 No but should be present. It w<br>56 No idea  | in be productive to educate start about stress  | P        | T        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 57 Largely useful  |   | VE       | T        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 58 To some extent  |   | SE       | Т        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        |  | metimes. Yes, I did but not very effective  | 1        | т        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 50 Alot<br>61 Noidea   |   | NU       | 1        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 61 No idea.<br>52 Very much  |   | NU       |          |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 33 May be but I don't see it of any  | y use. Never  | NU       | Ť        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 54 I tried anger management. Yes   | L.  | VE       | Ť        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 5 Yes, I have. Its somewhat effe   |   | SE       | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 36 Yes, yes. No it doesn't offer lo<br>37 No. Never. Not sure  | ong term solution   | P        | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | <ul> <li>No. Never. Not sure</li> <li>Yes, yes. Its effective</li> </ul>                             |   | SE       | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 59 Yes, yes at times it helps  |   | SE       | Т        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 70 Yes, I have but its not effectiv  | •   | 1        | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 71 Yes, yes quite useful   |   | SE       | T        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 72 No. No idea. Not sure<br>73 No idea.  |   | NU       | T        |                              |          |            |                                 |            |                                 |             |         |                             |           |
| 1      |        | 74 Somewhat effective  |   |          | NT       |                              |          |            |                                 |            |                                 | -           |         |                             |           |
| ſ      |        | 75 I have not used it  |   | NU       | Ť        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 76 Never used. Not sure  |   | NU       | T        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 77 It depends at times   |   | SE       | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | <ul> <li>78 It can't help you</li> <li>79 No.It can't help you</li> </ul>                            |   | 1        | T<br>NT  |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        |  | it should help you to some extent   | P        | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 81 I don't know. I never used, Yes   | s, it might help. It is effective   | P        | Т        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        |  | . To some level it should be effective  | SE       | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        |  | At previous institution, yes I used and it wa   | VE<br>E  |          |                              |          |            |                                 | _          |                                 |             |         |                             |           |
|        | -      | 1 es, you can go for counsellin,<br>So naver used I don't pool it.                                   | g, No I hadn't used. I believe very effective<br>I don't think others can help you. You can f |          | T        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 36 Unfortunately, I hadn't used It.  |   |          | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        | _      | B7 I have never used it  |   | NU       | T        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 38 I don't think its useful  |   | I.       | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 39 I have used it and it is very hell  | pful  | VE       | - Ale    |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 30 I hadn't use nothing. 31 Somewhat useful  |   |          | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 32 It's effective  |   |          | NT       |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 33 Yes it does help. I learn lot of  |   | E        | T        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 34 I have used and its somewhat e  | ffective  | SE       | T        |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 95 Yes, I am on waiting list. It co  |   | SE<br>SE | NT<br>NT |                              |          |            |                                 |            |                                 |             |         |                             |           |
|        |        | 36 I don't remember I ever used it<br>37 Not sure  | out it does neip  | P        | NT       |                              |          |            |                                 |            |                                 | -           |         |                             |           |
|        |        |  |   |          |          |                              |          |            |                                 |            |                                 |             |         |                             |           |

|       | How happy you would be in pursuing your career with another organ<br>Responses   |          | -        | Themes                                    | Letter code |              | Statisitc                                  |          | Statisitc                                  |            |              | Statisitc                       |            |
|-------|--|----------|----------|---|-------------|--------------|--|----------|--|------------|--------------|---------------------------------|------------|
| MALE  | 1 Depending upon opportunity. I will try for a change if good package is offered<br>2 I will feel good about it. It has been few years here and I don't feel I can stay here.  | N        | T        | High Visibility<br>Moderate visibility    | VH<br>MV    |              | Frequency<br>High Visibility               | 31       | Frequency<br>High Visibility               | 20         |              | Frequency<br>High Visibilit     | it.        |
|       |  |          |          |   |             |              |  |          |  |            |              | -                               |            |
|       | <ol> <li>Depends on how good is post. Recently a colleague got offer of Vice Chancellor fi</li> <li>If good opportnuity comes I will assess mu options. No ham in thinking about be</li> </ol>   |          | ÷        | Very low Visibility<br>Not visible at all | VL<br>N     |              | Moderate visibility<br>Very low Visibility | 12<br>19 | Moderate visibility<br>Very low Visibility | 8          |              | Moderate vis<br>Very low Visi   |            |
|       |  |          |          |   |             |              |  |          |  |            |              |                                 |            |
|       | 5 For a while if I see it's good I will go for it. Career growth chance, if comes I will av  |          | Т        | Not sure                                  | U           |              | Not visible at all                         | 27       | Not visible at all                         | 11         |              | Not visible at                  | <b>a</b> 1 |
|       | 6 Not sure but if good opportunity comes then I will think about it. It's always good  | U        | Т        | -   |             |              | Not sure                                   | 9        | Not sure                                   | 5          |              | Not sure                        | 4          |
|       | 7 Not sure. Well I am here but if there is something better, why not? I have a family.   | U        | T        |   |             |              | Total                                      | 98       | Total                                      | 49         |              | Total                           |            |
|       | 8 For change, I would love to try. I like doing new things   | MV       | т        |   |             |              |  |          |  |            |              |                                 |            |
|       | 9 Not sure   |          | т.       |   |             |              |  |          |  |            |              |                                 |            |
|       | 10 Depends if its much more relaxed. I will. Any organization gining me something be   | VL       | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 11 If its better I will be very happy. See, if there is opportunity then I will go for it. Try   | VL       | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 12 No, I am fine. Long career here and doing well  | VH       | NT       |   | Teaching    | Non-teaching | OVERALL                                    |          |  |            |              |                                 |            |
|       | 13 Now, I won't go. I am fine here. Most of my life has gone serving this university. I  | VH       | NT       | High Visibility                           | 18          | 13           | Proportion                                 |          | FEMALE                                     |            |              | MALE                            |            |
|       |  |          |          | Moderate visibility                       | 6           | 6            | High Visibility                            | 32%      | Proportion                                 |            |              | Proportion                      |            |
|       | <ol> <li>Quite happy here. I feel my job is doing enough to keep me happy</li> <li>If good opportunity come I will think about it. It's too much work so if something v</li> </ol>   | N        | NT       |   | 12          | 6            | Moderate visibility                        |          | High Visibility                            | 41%        |              | High Visibilit                  | it         |
|       | 16 No, I am happy here. This university has given me everything I desired for. I am sa   | VH       | T        | Not visible at all                        | 8           | 6            | Very low Visibility                        |          | Moderate visibility                        |            |              | Moderate vis                    |            |
|       | <ol> <li>Something good comes then no issues in trying all options. I wil asses situation at<br/>18 All my life has been here so now changing doesn't come to my mind. I am satisfied</li> </ol>   | VL<br>MV | NT       | Not sure<br>Total                         | 5           | 18<br>49     | Not visible at all<br>Not sure             | 28%      | Very low Visibility<br>Not visible at all  | 16%<br>22% |              | Very low Visi<br>Not visible at |            |
|       | 19 Depends but I am not sure   | U        | Т        | Grand Total Responde                      | 98          |              | Total                                      | 100%     | Not sure                                   | 10%        |              | Not sure                        | ľ          |
|       | 20 I will not go. It's a government job  | VH       | T        |   |             |              |  |          | Total                                      | ####       |              | Total                           |            |
|       | 21 No, I am fine here<br>22 Very happy, if I get good chance   | N        | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 23 I am somewhat happy for time being here   | VL       | NT       |   | Teaching    | Non-teaching |  |          |  |            |              |                                 |            |
|       | 24 I am OK here. You know its government job so its fine here. I will stay here 75 I will go because I want to tay for a change  | N        | NT       | High Visibility<br>Moderate visibility    | 37%<br>12%  | 27%<br>12%   |  |          | High Visibility                            | Male<br>11 | Female<br>20 |                                 |            |
| MALE  | <ul> <li>I will go because I want to try for a change</li> <li>I am comfortable here. I wouldn't see myself here for too long. If better opportunits</li> </ul>  |          | T        | Very low Visibility                       | 12%<br>24%  | 12%          |  |          | Moderate visibility                        | 11 7       | 20<br>5      |                                 |            |
|       | 27 More than happy to go. Change helps you to grow up more.  |          | NT       | Not visible at all                        | 16%         | 12%          |  |          | Very low Visibility                        | 11         | 8            |                                 |            |
|       | 28 Depends on what is offered. I might go, you might go too if you are given better c<br>29 I will take my chance.   | VL<br>N  | T        | Not sure                                  | 10%<br>100% | 37%<br>100%  |  |          | Not visible at all<br>Not sure             | 16<br>4    | 11           |                                 |            |
|       | <ul> <li>I will take my chance.</li> <li>I am happy here but If something good is offered. I might try but so far its good he</li> </ul>   |          | T        | 1.51.01                                   | 100%        | 100%         |  |          | Total                                      | 4          | 49           |                                 |            |
|       | 31 I will be happy to go. Workload is too much. I am bit fade up with this routine   | N        | NT       | 1   |             |              |  |          | Grand total                                | 98         |              |                                 |            |
|       | 32 If I got good opportunity I will but I would be sad to go.<br>33 Very happy because of workload. Sometime too many changes here   | MV<br>N  | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | <ol> <li>Very happy because of workload. Sometime too many changes here</li> <li>If offer is very very good I will but you discuss with your employer and see if they</li> </ol>   |          | T        |   |             |              |  |          |  |            |              |                                 |            |
|       | 35 If its good opportunity I will go. I want my family to have best life from my job   | N        |          |   |             |              |  |          |  |            |              |                                 |            |
|       | <ol> <li>It would be based on very very much on opportunity. Something research aspiring</li> <li>Probably not happy. I am here from long time. I enjoy being here</li> </ol>  | MV<br>VH | T        |   |             |              |  |          |  |            |              |                                 |            |
|       | 38 I don't want to go anywhere   | VH       | т        |   |             |              |  |          |  |            |              |                                 |            |
|       | 39 I will be very happy to godue to current issues   | N        | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 40 I would be happy to go Tired with work<br>41 Very much. I feel its too much workload  | N<br>N   | NT<br>NT |   |             |              |  |          |  |            |              |                                 |            |
|       | 42 Very happy. I am ok here but better opportunity will excite me  | VL       | T        | 1   |             |              |  |          |  |            |              |                                 |            |
|       | 43 I am happy here.  | VH       | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | <ol> <li>I am very complacent. I am bit lazy. My friends are here. It's convenient. I am fine h</li> <li>It depends on circumstances. If chance to stay you stay. If circumstances ask you</li> </ol>  | MM       | T        | -   |             |              |  |          |  |            |              |                                 |            |
|       | 46 Depends on opportunity. I like to move. Politics in organisation cause all such pre   |          | т        |   |             |              |  |          |  |            |              |                                 |            |
|       | 47 I will be more than happy to go. I am bored here  | N        | NT       | -   |             |              |  |          |  |            |              |                                 |            |
|       | 48 I have no active plans to go. I am happy here but I can't say what happens in futur<br>49 See it all depends. I might go and I might stay. It all depends on offer  | VH       | NT       |   |             |              |  |          |  |            |              |                                 |            |
| FEMAL | 50 Really I am comfortable. I would stay here. This job, this university has given me a  | VH       | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 51 I won't like going anywhere. I am having all support here. I enjoy the environment  |          | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 52 I won't go. I am getting all what I desired for<br>53 Very much fine here because it is like my home  | VH<br>VH | NT<br>NT |   |             |              |  |          |  |            |              |                                 |            |
|       | 54 I wouldn't like to go because this organization has given me too many things  | VH       |          |   |             |              |  |          |  |            |              |                                 |            |
|       | 55 Not sure. May be I might be very happy may be I might not   | u        | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | <ul> <li>56 At the moment I am fine here. I will be happy continuing here</li> <li>57 Not sure but I am very happy here. I know all, familiar with surroundings. I feel relationships in the surrounding of the surrou</li></ul> | VL<br>MV | T        |   |             |              |  |          |  |            |              |                                 |            |
|       | 57 Not sure but I am very happy here. I know all, familiar with surroundings. I feel fee<br>58 I am not sure but I will not be happy. I am comfortable here  | VL       | Т        | S   |             |              |  |          |  |            |              |                                 |            |
|       | 59 I would grab none. I am happy here. This is like my second home. I am happy   | VH       | Т        | 1   |             |              |  |          |  |            |              |                                 |            |
|       | <ul> <li>50 No. I am happy here. All well</li> <li>51 I am here since long so if I had to quit I would have done long ago. I hadn't becau</li> </ul>   | VH       | T        |   |             |              |  |          |  |            |              |                                 |            |
|       | 62 Not at all. I am fine here. The institution has given a lot to me. I would like to stay t   | VH       | T        | N   |             |              |  |          |  |            |              |                                 |            |
|       | 63 Something better will be definitely considered. Opportunities help you grow. New  | N        | Т        |   |             |              |  |          |  |            |              |                                 |            |
|       | 64 No I won't be happy. This department has given me a lot. I can't think of quiting<br>65 Not sure  |          | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 66 I am happy here. It has become my routine. Its part of my life to work here   | VH       | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 67 A little disappointed to leave because its long time I worked here but it will take tir   |          | NT       | -   |             |              |  |          |  |            |              |                                 |            |
|       | 68 Not sure about much but if its good opportunity I might consider<br>69 Its even difficult to think I can go. I have so many years of my life here   | VL       | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 70 I will definitely go. Everyone deserve a chance to get something better   | N        | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 71 Depends. I might consider if its good opportunity   | VL       | T        |   |             |              |  |          |  |            |              |                                 |            |
|       | 72 Not sure<br>73 I am very happy here   | VH       | T        |   |             |              |  |          |  |            |              |                                 |            |
| FEMAL | 74 Difficult one. I would like to stay bu if those changes which I mentioned earlier tak   | MV       | NT       | <i>.</i>                                  |             |              |  |          |  |            |              |                                 |            |
|       | 75 Currently I am fine but I might go if goop opportunity is there   | VL       | T        | S   |             |              |  |          |  |            |              |                                 |            |
|       | <ul> <li>76 I will stay. I am new here and may be with time it gets better</li> <li>77 It depends. I will go if better career opportunity comes my way</li> </ul>  | N        | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 78 Not sure  | U        | т        |   |             |              |  |          |  |            |              |                                 |            |
|       | 79 If more paid job I will go. May be location, next to my house will make me go   | N<br>N   | NT<br>NT |   |             |              |  |          |  |            |              |                                 |            |
|       | <ol> <li>Yes, I will be happy. Just tired of doing samething</li> <li>I will be happy to go. Workload is too much. I am bit fade up with this routine. I w</li> </ol>  |          | T        | -   |             |              |  |          |  |            |              |                                 |            |
|       | 82 It depends on opportunity. I might stay or might go   | VL       | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 83 Yes. Here are too many changes. I would go to place where its all stable  | VL       | T        |   |             |              |  |          |  |            |              |                                 |            |
|       | 84 I would be sad but I will be staying. Probably because of my age. Soon, I will retire<br>85 At the moment, I am fine here. I don't have any plan. If I feel very high pressure I n  | VH<br>VH | T        |   |             |              |  |          |  |            |              |                                 |            |
|       | 86 It there is one. I will welcome it  |          | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 87 Yes but I wouldn't want to leave  | VH       | T        |   |             |              |  |          |  |            |              |                                 |            |
|       | 88 At the moment I am happy here. Couldn't be much better<br>89 I enojy what I am doing here but working for others too is a plus.   | MV       | T        |   |             |              |  |          |  |            |              |                                 |            |
|       | 90 I will be very happy  |          | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 91 I don't think that I will be happy. I think it will be wrong. My age is 46. I won't go. I   | VH       | Т        |   |             |              |  |          |  |            |              |                                 |            |
|       | 92 It depends. Obviously if better chance come few might consider. I am not sure<br>93 It depends on the type of organisation. What are the opportunity. At the moment,  |          | NT       | -   |             |              |  |          |  |            |              |                                 |            |
|       | <ul> <li>g3 It depends on the type of organisation. What are the opportunity. At the moment,</li> <li>g4 Very happy to move on. It's stressful here</li> </ul>   |          | т        |   |             |              |  |          |  |            |              |                                 |            |
|       | 95 Half half   | MV       | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 96 If good opportunity come I will   | MV       | NT       |   |             |              |  |          |  |            |              |                                 |            |
|       | 97 I would be happy to go. If its good for my career I will go   | N        | NT       |   |             |              |  |          |  |            |              |                                 |            |

| MA  |       | Responses   |    |          | Contraction of the second                | Letter coo | le          | Statisitc   |            | Statisitc                                   |           |              | Statisitc                     |    |
|-----|-------|---|----|----------|--|------------|-------------|---|------------|---|-----------|--------------|-------------------------------|----|
| _   | LE 1  | Environmental factors like any mishap, strike, etc  | E  | T        | Personal Factors (F                      |            |             | Frequency   |            | Frequency                                   |           |              | Frequency                     |    |
|     | 2     | Organisational factors<br>Personal factors  | 0  |          | Organisational fac<br>Enviornmental fact | O<br>E     |             | Personal Factors (Family<br>Organisational factors (R | 36<br>36   | Personal Factors (Fi<br>Organisational fact | 32<br>10  |              | Personal Facto                |    |
|     | 4     | Organisational  | a  |          | No stress                                | N          |             | Enviornmental factors (E                              | 22         | Enviornmental facto                         | 10        |              | Organisationa<br>Enviornmenta |    |
|     | 5     | Environmental   | E. | T        | no suess                                 |            |             | No stress   | 4          | No stress                                   | 2         |              | No stress                     |    |
|     | 6     | Organisational factors  |    |          |  |            |             | Total   | 98         | Total                                       | 49        |              | Total                         |    |
|     | 7     | Organisational factors  |    |          |  |            |             |   |            |   |           |              |                               |    |
|     | 8     | Organisational<br>Organisational stress   |    |          |  |            |             |   |            |   |           |              |                               |    |
|     | 10    | Environmental factors causes me stress  | E  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     | 11    | Organisational stress   | 0  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     | 12    | Organisational factors  | 0  | NT       |  |            | on-teaching |   |            |   |           |              |                               |    |
|     | 13    | Political uncertainty is a major issue  | E  | NT       | Personal Factors (F                      |            | 16          | Proportion  |            | FEMALE                                      |           |              | MALE                          |    |
|     | 14    | Environmental factors<br>Organisational factors   | E  | NT       | Organisational fac<br>Enviornmental fact | 18         | 18<br>13    | Personal Factors (Family<br>Organisational factors (R | 37%<br>37% | Proportion<br>Personal Factors (Fi          | 65%       |              | Proportion<br>Personal Facto  |    |
|     | 16    | Environmental factors   | E  | T        | No stress                                | 2          | 2           | Enviornmental factors (Er                             | 22%        | Organisational fact                         |           |              | Organisationa                 |    |
|     | 17    | Organisational factors because personal are only temporary  | 0  | NT       | Total                                    | 49         | 49          | No stress   | 4%         | Enviornmental facto                         | 10%       |              | Enviornmenta                  |    |
|     | 18    | Well I say organisational factors at time causes me stress but t  |    | NT       | Grand Total Respond                      | 98         |             | Total   | 100%       | No stress                                   | 4%        |              | No stress                     |    |
|     | 19    | Organisational factors.<br>Environmental Factors  | 0  | 7        |  |            |             |   |            | Total                                       | 100%      |              | Total                         | 10 |
|     | 20    | Environmental factors   | E  | NT       |  | Teaching   | on-teaching | 2   |            |   |           |              |                               |    |
|     | 22    | Environmental factors   | E  | NT       | Personal Factors (F                      | 41%        | 33%         |   |            |   |           |              |                               |    |
|     | 23    | Organisational factors  | 0  | NT       | Organisational fac                       | 37%        | 37%         |   |            |   |           |              |                               |    |
|     | 24    | Organisational factors too but I will say environmental factors.<br>Organisational factors  | E  | NT       | Enviornmental fact<br>No stress          | 18%<br>4%  | 27%<br>4%   |   |            | Personal Factors (Fi                        | Male<br>4 | Female<br>32 |                               |    |
| MA  | LE 26 | I think the political climate inside this organization. Environment   | E  | T        | No stress<br>Total                       | 4%<br>100% | 4%<br>100%  |   |            | Organisational fact                         | 4         | 32           |                               |    |
|     | 27    | Organisational factors. Injustice inside here   |    | NT       |  | 20070      | /0          |   |            | Enviornmental facto                         | 17        | 5            |                               |    |
|     | 28    | Depends on situation, Politics inside the organisation. Organis   | Е  | т        |  |            |             |   |            | No stress                                   | 2         | 2            |                               |    |
|     | 29    | Environmental stress is higher. I feel too much politics inside the   | E  | NT       |  |            |             |   |            | Total                                       | 49        | 49           |                               |    |
|     | 30    | Organisational factors. I can see few favoured and others igno<br>Surely, Organisational factors                                    |    | NT       |  |            |             |   |            | Grand total                                 | 98        |              |                               |    |
|     | 32    | Family and work. Personal and work goes together. Work is yo  | P  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     | 33    | Work. Organisational factors  | 0  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     | 34    | It depends on time. Sometime you get pressure from family like  |    |          |  |            |             |   |            |   |           |              |                               |    |
|     | 35    | Work causes me stress<br>In between personal and organisational factors. Coming from f  | 0  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     | 30    | No personal issues cause me stress but technology does. I am  | E  | T        |  |            |             |   |            |   |           |              |                               |    |
|     | 38    | Adversely can be pain. Complext environemtn. Some people m  | P  | Ť        |  |            |             |   |            |   |           |              |                               |    |
|     | 39    | Organisational factors. Workload  | 0  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     | 40    |   | 0  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | Environmental factors<br>Organisational factors   | E  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     | 43    |   | N  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     | 44    | Everything. Combination of a lot. We all have stress but gettin   | O  |          |  |            |             |   |            |   |           |              |                               |    |
|     |       | I didn't find myself in such situation. Stress is outcome of faile  | N  | T        |  |            |             |   |            |   |           |              |                               |    |
|     | 46    | Politics at work. Organisational factors  | 0  | T        |  |            |             |   |            |   |           |              |                               |    |
|     | 47    | Environmental factors<br>Personal factors. Organisational factors are second to inject str  | E  | NT<br>NT |  |            |             |   |            |   |           |              |                               |    |
|     | 49    | Organisational factors  | 0  | т        |  |            |             |   |            |   |           |              |                               |    |
| FEN |       | Personal  | Р  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | Environmental uncertainties like political unrest in city   | E  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | Mostly organisational factors affect me<br>Personal stress  | p  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | Personal things   | Р  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | Personal factors give me higher stress  | Р  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | Personal factors usually  | P  | Т        |  |            |             |   |            |   |           |              |                               |    |
|     |       | Usually my family issues do cause me stress<br>Environmental factors  | P. | 1        |  |            |             |   |            |   |           |              |                               |    |
|     |       | Organisational factors  |    |          |  |            |             |   |            |   |           |              |                               |    |
|     |       | Personal factors cause me stress  | P  | τ        |  |            |             |   |            |   |           |              |                               |    |
|     |       | All but mostly personal factors cause me higher stress  | P  | т        |  |            |             |   |            |   |           |              |                               |    |
|     |       | Personal factors  | P  | Ţ        |  |            |             |   |            |   |           |              |                               |    |
|     |       | Family issues cause me stress. Personal factors<br>Personal stress is high. My family related issues                                | p  | ÷        |  |            |             |   |            |   |           |              |                               |    |
|     |       | Environmental factors   | E  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     | 66    | Organisational factors  | 0  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | My family issues  | P  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | No such things<br>Personal factors  | N  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | Personal factors Personal factors   | P  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     | 71    | Personal  | P  | T        |  |            |             |   |            |   |           |              |                               |    |
|     |       | Environmental factors   | E  | NT       |  |            |             |   |            |   |           |              |                               |    |
| CC* |       | Personal factors  | P  | T        |  |            |             |   |            |   |           |              |                               |    |
| FEN |       | Personal things. My family issue causes me stress often<br>Personal life. My family. I can't give them time                         | P  | NT<br>T  |  |            |             |   |            |   |           |              |                               |    |
|     |       | Personal issues. There are conflicts. I can see too much politic:   | P  | Ť        |  |            |             |   |            |   |           |              |                               |    |
|     | 77    | Work  | 0  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | My personal life issues   | P  | т        |  |            |             |   |            |   |           |              |                               |    |
|     |       | Too much politics at workplace<br>Work. Tasks give me stress  | E  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | Work. Tasks give me stress<br>Workload. Organisational factors  |    | NT       |  |            |             |   |            |   |           |              |                               |    |
|     | 82    | I try not to get stressed. Its overwork sometimes but usually m   | P  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     | 83    | Personal  | Р  | T        |  |            |             |   |            |   |           |              |                               |    |
|     |       | Organisational factors  | 0  | T        |  |            |             |   |            |   |           |              |                               |    |
|     |       | Misunderstanding between colleagues like personality clashes<br>More controlled about personal but no control at work               | P  |          |  |            |             |   |            |   |           |              |                               |    |
|     |       | Working fulltime. Doing PhD and I have family   | P  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | Family, personal issues   | Р  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     | 89    | Personal factors. Secondly, I don't feel right about brodening of   | P  | т        |  |            |             |   |            |   |           |              |                               |    |
|     |       | When there is conflicts with colleagues. Non professional and   |    | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | Organisational factors. Over burden and deadline causes me st<br>It depends on time. If something happens at time there then it of  |    | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | It depends on time. If something happens at time there then it of<br>Sometimes political environment. Family issues come in differe | P  | T        |  |            |             |   |            |   |           |              |                               |    |
|     |       | No stress   | N  | T        |  |            |             |   |            |   |           |              |                               |    |
|     | 95    | All personal factors  | Р  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | It varies. Once I am at office than its all office. Usually office th   | 0  | NT       |  |            |             |   |            |   |           |              |                               |    |
|     |       | Family and outside influences   | P  | NT       |  |            |             |   |            |   |           |              |                               |    |

|          |     | . <b>"</b> а | t is the impact of this type of stress on you? like behavioural, psycholog   | ,.cai, pil | , storog | .can, cogn             |            |            | OVERALL                        |          | FEMALE                         |            |             | MALE                           |     |
|----------|-----|--------------|--|------------|----------|------------------------|------------|------------|--------------------------------|----------|--------------------------------|------------|-------------|--------------------------------|-----|
|          |     |              | Responses  |            |          | Themes                 | Letter cod | ie         | Statisitc                      |          | Statisitc                      |            |             | Statisitc                      |     |
| MA       | LE  |              | Behavioural issues grow up   | В          | т        | Behaviou               | В          |            | Frequency                      |          | Frequency                      |            |             | Frequency                      |     |
|          | - 6 |              | Behavioural  | B          | T        | Psycholo               | S          |            | Behavioural<br>Development     | 28       | Behavioural                    | 8<br>21    |             | Behavioural                    |     |
|          |     |              | Like I told you anxiety. Mostly behavioural<br>Physiological   | P          | -        | Physiolog<br>Cognitive | P          |            | Psychological<br>Physiological | 35<br>20 | Psychological<br>Physiological | 21         |             | Psychological<br>Physiological |     |
| )        |     |              | Behavioural  | в          | т        | No impar               | N          |            | Cognitive                      | 10       | Cognitive                      | 7          |             | Cognitive                      |     |
|          |     |              | Behavioural  | В          | т        | 1                      |            |            | No impact                      | 5        | No impact                      | 4          |             | No impact                      |     |
| 1        |     |              | Physiological  | P          | T        | 2                      |            |            | Total                          | 98       | Total                          | 49         |             | Total                          |     |
| -        |     |              | Behavioural<br>Physiological   | B          | T        |                        |            |            |                                |          |                                |            |             |                                |     |
|          | 1   |              | Behavioural problem happens due to such types of stress  |            |          |                        |            |            |                                |          |                                |            |             |                                |     |
|          | 1   |              | Behavioural  | 8          |          |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | Behavioural  | 8          | NT       |                        |            | on-teachin |                                |          |                                |            |             |                                |     |
| -        |     |              | Physical<br>Psychological  | P          | NT       | Behaviou               | 14         | 14<br>16   | Proportion<br>Behavioural      | 29%      | FEMALE<br>Proportion           |            |             | MALE                           |     |
| i –      |     |              | Physiological concern are more affecting me  | P          | NT       | Psycholo<br>Physiolo   | 19<br>7    | 13         | Psychological                  | 36%      | Behavioural                    | 16%        |             | Behavioural                    | 41  |
|          |     |              | Behavioural issues do occur due to stress  | В          | т        | Cognitive              | 5          | 5          | Physiological                  | 20%      | Psychological                  | 43%        |             | Psychological                  | 29  |
|          |     |              | Psychological impact higher than any other   | S          | NT       | No impa                | 4          | 1          | Cognitive                      | 10%      | Physiological                  | 18%        |             | Physiological                  | 22  |
| 1        |     |              | Usually behavioural things happen due to it but that's for time being  | 8          | NT       | Total<br>Grand Tot     | 49<br>98   | 49         | No impact                      | 5%       | Cognitive                      | 14%        |             | Cognitive                      |     |
| <b>.</b> |     |              | Psychological symptoms<br>Physical   | P          | T        | Grand Tot              | 30         |            | Total                          | 100%     | No impact<br>Total             | 8%<br>100% |             | No impact<br>Total             | 100 |
| 1        |     |              | Behavioural  |            |          |                        |            |            |                                |          |                                |            |             |                                |     |
| ×        |     |              | Disturb sleep  | 8          | NT       |                        |            | on-teachin | g                              |          |                                |            |             |                                |     |
|          |     |              | Psychological. I will say emotional  | S          | NT       | Behaviou               | 29%        | 29%        |                                |          |                                |            | -           |                                |     |
|          |     |              | I do have aching and pain. Even sometimes I feel like my heartrate has rapidly increased<br>Anxiety and depression   | P          | NT       | Psycholo<br>Physiolo   | 39%<br>14% | 33%<br>27% |                                |          | Behavioural                    | Male<br>20 | Female<br>8 |                                |     |
| MA       |     |              | Stress. Cognitive  | c          | Ť        | Cognitive              |            | 10%        |                                |          | Psychological                  | 14         | 21          |                                |     |
|          |     | 27 ]         | Demotivation. Psychological impact and may end in physical one. It can affect persona  | S          | NT       | Total                  | 92%        | 98%        |                                |          | Physiological                  | 11         | 9           |                                |     |
|          |     | 28 ]         | De-motivation. Psychological one   | S          | T        |                        |            |            |                                |          | Cognitive                      | 3          | 7           |                                |     |
|          |     |              | I forget things. I have memory issue. Cognitive<br>Mood surings. At times I have no do a suring mowhet have and P.   | .C.        | NT       |                        |            |            |                                |          | No impact                      | 1          | 4           |                                |     |
| -        |     |              | Mood swings. At times I become too moody. Everyone is asking me what happened. P<br>Psychological  | S.         | T        |                        |            |            |                                |          | Total<br>Grand total           | 49<br>98   | 49          |                                |     |
|          | -   |              | Psychological I don't express emotions so I am upfront standing but inside bit sad   | S          | NT       |                        |            |            |                                |          | 5.010 (010)                    |            |             |                                |     |
|          | 3   | 33 ]         | Psychological. I can be more closed and angry but nothing physical   | S          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
|          | 3   | 34 ]         | If stress I eat more. Behavioural . I had headache too, My health detriote but its more b  | В          | Т        |                        |            |            |                                |          |                                |            |             |                                |     |
| )        |     |              | To be honest, I don't know exactly but behavioural more<br>Behavioural   | B          | NT<br>T  |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | Benavioural<br>Physical. No such othr issues but only if I don't get solution then it dipress you a little   | P          | T        | 1                      |            |            |                                |          |                                |            |             |                                |     |
| <        |     |              | It make me more determinant but at times I have emotional problems   | с          | T:       |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | You never feel you did right. Make additional changes. Resourcing is important to over   | P          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | Mood swings  | S          | NT       | _                      |            |            |                                |          |                                |            |             |                                |     |
| 1        |     |              | Physical symptoms. I can't eat or even sleep<br>Psychologibal too but mostly behavioural impact  | P<br>B     | NT<br>T  |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | Physical pain. I sleep to get better. The key is rest. I make sure I have rest at weekend a  | P          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
| ì        |     |              | Sleelpless nights. Sometimes at middle of night I talk to myself. Unable to sleep. I keep t  | В          | т        |                        |            |            |                                |          |                                |            |             |                                |     |
| ) —      |     |              | Despite all. It never foes to point that affects me too much. Its more in my mind. I have  | N          | Т        |                        |            |            |                                |          |                                |            |             |                                |     |
|          | - 4 |              | All of these affect but psychological stays longer<br>My mood will change  | S          | T        |                        |            |            |                                |          |                                |            |             |                                |     |
| )        | 4   |              | i find to lash out things. I let stress leak into my behaviour. I avoid people because I do  | 8          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
| 1        |     | 49 1         | I have sleep problem often due to stress   | В          | т        |                        |            |            |                                |          |                                |            |             |                                |     |
| FEI      |     |              | Psychological  | S          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | I feel depress. My mood swings (behavioural)<br>Physiological symptoms are resulting frequently  | 8          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | Psychological , I feel emotionally depressed   | s          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
| <b>'</b> |     |              | Psychological  | S          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
|          | 5   | 55 1         | I have cognitive issues  | C          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
| •        |     |              | Psychological factors usually  | S          | T        |                        |            |            |                                |          |                                |            |             |                                |     |
| (        |     |              | It affects me in psychological manner<br>Cognitive   | C          | T        |                        |            |            |                                |          |                                |            |             |                                |     |
| •        |     |              | Psychological symptoms are common  | S          | Ť        |                        |            |            |                                |          |                                |            |             |                                |     |
|          | 6   | 60 1         | Psychological  | S          | т        |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | Psychological  | S          | Т        |                        |            |            |                                |          |                                |            |             |                                |     |
| 1 -      |     |              | Psychological  | S          | T        |                        |            |            |                                |          |                                |            |             |                                |     |
| <u> </u> |     |              | I have memory issue (cognitive)<br>Psychological   | S          | т        |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | Physical most of the times   | р          | NT       | 1                      |            |            |                                |          |                                |            |             |                                |     |
|          | 6   | 66 ]         | Behavioural  | 8          |          |                        |            |            |                                |          |                                |            |             |                                |     |
| 1        |     |              | I worry constantly   | C<br>N     | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | No impact<br>Emotional   | N          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
| 1        |     |              | Physical   | P          | NT       | 1                      |            |            |                                |          |                                |            |             |                                |     |
|          | 7   | 71 ]         | Behavioural  | В          | T        |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | Physical   | р          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | Psychological impact   | S          | T.       |                        |            |            |                                |          |                                |            |             |                                |     |
| I FEI    |     |              | Anxiety take place. I will say psychological<br>Anxiety and depression   | 5          | NT<br>T  |                        |            |            |                                |          |                                |            |             |                                |     |
| 1        | 7   | 76           | Agitation, anxiety. More emotional things  | s          | T        |                        |            |            |                                |          |                                |            |             |                                |     |
|          | 7   | 77 ]         | I can't focus. Unable to concentrate   | <u>,C</u>  | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | I have depression and anxiety. I feel like too much initation  | S          | T        |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | Emotionally affected<br>Psychological. Anxiety   | S          | NT<br>NT | -                      |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | Eye affects sometimes. Physical and lack of rest. So I am bit on medicene too.   | P          | T        |                        |            |            |                                |          |                                |            |             |                                |     |
|          | 8   | 82 ]         | Body. Physical   | Р          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
| )        |     |              | Worried about things. Sometime sleep less but I keep thinking about it   | С          | T        |                        |            |            |                                |          |                                |            |             |                                |     |
| -        |     |              | Psychological<br>If there is any issue then it will reduce your plan. I don't feel good about it. I don't like i   | S          | T        |                        |            |            |                                |          |                                |            |             |                                |     |
|          | 8   | 86 1         | If there is any issue then it will reduce your plan. I don't feel good about it. I don't like i<br>Physical symptoms that's why I go to Dr.                                      | P          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | It gets to point I get assertive. I plan. There is no impact   | N          | T        |                        |            |            |                                |          |                                |            |             |                                |     |
|          | 8   | 88 ]         | My grand mother was hospitalized. I had to travelled to Spain. All the time I was there b  | ¢          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | Yes, it creates physiological reactions because of being casual  | P          | T        |                        |            |            |                                |          |                                |            |             |                                |     |
| I —      |     |              | I eat less. I sleep less. I do have at times anxiety but mostly its my diet and sleep<br>I am calm person. Balanced under stress. I sleep less. This might affect my health.     | B          | NT<br>T  |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | I am caim person. Balanced under stress. I sleep less. I his might affect my health.<br>I never measure. Its pressure at work. Once I am out I enjoy with my family but I do hav | 8          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
| i        |     |              | I always try solving it. I don't bottle it. I try solving it. It has no impact   | N          | т        |                        |            |            |                                |          |                                |            |             |                                |     |
| )        | 9   | 94 ]         | No impact  | N          | т        |                        |            |            |                                |          |                                |            |             |                                |     |
|          |     |              | More anxity  | S          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
| ) –      |     | MPS III      | I have physical pain. I do have body issues, which leads to depression   | P          | NT       |                        |            |            |                                |          |                                |            |             |                                |     |
| 1        |     |              | Worrying constantly  |            |          |                        |            |            |                                |          |                                |            |             |                                |     |

## **APPENDIX B**

| AC                     | AC                       | AC                        | AC                     | AC                    |
|------------------------|--------------------------|---------------------------|------------------------|-----------------------|
| Personal strain via    | Perceived job stress via | Role of Occ Therapist via | Personal Resources via | Personal Strain       |
| Perceived Job Stress   | personal strain          | personal strain           | Personal Strain        | 0.09 X 0.28 = .025    |
| 0.68 X 0.33 = .22      | 0.68 X 0.28 = .19        | $0.27 \ge 0.28 = .016$    | $0.38 \ge 0.28 = .106$ | 0.16 + 0.025 = .18    |
| 0.28 + 0.22 = .5       | 0.33 + 0.19 = .52        | 0.06 + = .296             | 0.13 + 0.1604 = .23    |                       |
| AC                     | AC                       | AC                        | AC                     | AC                    |
| Role of Occupational   | Role of Occupational     | via Perceived job stress  | Perceived Job Stress   | Perceived Job Stress  |
| Therapist              | Therapist                | 0.25 X 0.33 = .082        | 0.31 X 0.33 = .042     | 0.12 X 0.33 = .039    |
| $0.27 \ge 0.06 = .016$ | $0.25 \ge 0.06 = .015$   | 0.06 + 0.082 = .14        | 0.13 + 0.042 = .17     | 0.16 + = .19          |
| 0.28 + 0.016 = .296    | 0.33 + 0.015 = .34       |                           |                        |                       |
| AC                     | AC                       | AC                        | AC                     | AC                    |
| Personal Resources     | Personal Resources       | Personal Resources        | Role of Occ therapist  | Role of Occ therapist |
| 0.38 X 0.13 = .049     | 0.31 X 0.13 = .04        | 0.29 X 0.13 = .0377       | 0.29 X 0.06 = .017     | 0.13 X 0.06 = .007    |
| 0.28 + 0.049 = .32     | 0.33 + 0.04 = .37        | 0.06 + 0.037 = .097       | 0.13 + 0.037 = .147    | 0.16 + 0.007 = .167   |
| AC                     | AC                       | AC                        | AC                     | AC                    |
| Social support         | Social support           | Social support            | Social support         | Social support        |

| 0.09 X 0.16 = .014 | 0.12 X 0.16 = .019 | 0.13 X 0.16 = .020 | 0.15 X 0.16 = .024 | 0.15 X 0.13 = .019  |
|--------------------|--------------------|--------------------|--------------------|---------------------|
| 0.28 + 0.014 = .29 | 0.33 + 0.019 = .34 | 0.06 + 0.020 = .08 | 0.13 + 0.024 = .15 | 0.16 + 0.0195 = .17 |

| NC                     | NC                       | NC                            | NC                       | NC                       |
|------------------------|--------------------------|-------------------------------|--------------------------|--------------------------|
| Personal strain via    | Perceived Job Stress via | Role of occupational          | Personal Resources via   | Social support via       |
| Perceived Job Stress   | personal strain          | therapist via personal strain | Personal Strain          | Personal Strain          |
| 0.68 X 0.23 = 0.156    | 0.68 X 0.15 = 0.102      | $0.27 \ge 0.15 = 0.405$       | 0.38 X 0.15 = .057       | 0.09 X 0.15 =.011        |
| 0.15 + 0.156 = .306    | 0.23 + 0.102 = .332      |                               | 0.14 + 0.057 = .19       | 0.13 + = 0.16            |
|                        |                          | 0.02 + 0.405 = 0.06           |                          |                          |
| NC                     | NC                       | NC                            | NC                       | NC                       |
| Role of Occupational   | Via Role of Occupational | Via Perceived Job Stress      | Via Perceived Job Stress | Via Perceived Job Stress |
| Therapist              | Therapist                | 0.25 X 0.23 = .0575           | 0.31 X 0.23 = .0713      | 0.12 X 0.23 = .027       |
| $0.27 \ge 0.02 = .005$ | $0.25 \ge 0.02 = .005$   | 0.02 + 0.0575 = 0.0775        | 0.14 + 0.0713 = .21      | 0.13 + = .14             |
| 0.15 + 0.005 = 0.15    | 0.23 + 0.005 = 0.235     |                               |                          |                          |
| NC                     | NC                       | NC                            | NC                       | NC                       |
| Personal Resources     | Personal Resources       | Personal Resources            | Via Occ. Therapist       | Via Occupational         |
| 0.38 X 0.14 = .05      | 0.31 X 0.14 = .0434      | 0.29 X 0.14 = .0406           | 0.29 X 0.02 = .005       | Therapist                |
| 0.15 + 0.05 = .20      | 0.23 + 0.0434 = .27      | 0.02 + 0.0406 = .06           | 0.14 + 0.005 = .145      | 0.13 X 0.02 = .002       |
|                        |                          |                               |                          | 0.13 + 0.002 = .13       |

| NC                  | NC                 | NC                   | NC                 | NC                     |
|---------------------|--------------------|----------------------|--------------------|------------------------|
| Social Support      | Social Support     | Social Support       | Social Support     | Via Personal Resources |
| 0.09 X 0.13 =.011   | 0.12 X 0.13 = .015 | 0.13 X 0.13 = .0195  | 0.15 X 0.13 = .023 | 0.15 X 0.02 = .023     |
| 0.15 + 0.011 = 0.16 | 0.23 + 0.011 = .24 | 0.02 + 0.0195 = .039 | 0.02 + 0.23 = .043 | 0.13 + 0.23 = .033     |

| CC                       | CC                        | CC                     | CC                       | CC                             |
|--------------------------|---------------------------|------------------------|--------------------------|--------------------------------|
| Personal strain via      | Perceived Job Stress via  | Occ Therapist Via      | Personal Resources via   | Social Support via             |
| Perceived Job Stress     | personal strain           | Personal Strain        | Personal strain          | Personal Strain                |
| 0.68 X 0.07 = .047       | 0.68 X 0.14 = .095        | 0.27 X 0.14 = .037     | 0.38 X 0.14 = .053       | $0.09 \text{ X} \ 0.14 = .012$ |
| 0.14 + 0.047 = .18       | 0.07 + 0.095 = .16        | 0.08 + 0.037 = .11     | 0.27 + 0.053 = .19       | 0.26 + 0.012 = .27             |
| CC                       | CC                        | CC                     | СС                       | СС                             |
| Via Role of Occupational | Via Role of Occ Therapist | Via Perceived Stress   | Via Perceived Job Stress | Via Perceived Job Stress       |
| Therapist                | 0.25 X 0.08 = .02         | 0.25 X 0.07 = .017     | 0.31 X 0.07 = .021       | 0.12 X 0.07 = .008             |
| 0.27 X 0.08 = .02        | 0.07 + 0.02 = .09         | 0.08 + 0.017 = .09     | 0.27 + 0.021 = .29       | 0.26 + 0.008 = .268            |
| 0.14 + 0.02 = 0.166      |                           |                        |                          |                                |
| CC                       | CC                        | СС                     | СС                       | СС                             |
| Via Personal Resources   | Via Personal Resources    | Via Personal Resources | Via Occ therapist        | Via Occ Therapist              |
| 0.38 X 0.27 =0.102       | 0.31 X 0.27 =0.095        | 0.29 X 0.27 = .078     | 0.29 X 0.08 = .023       | 0.13 X 0.08 = .010             |

| 0.14 + 0.10 = .24    | 0.07 + 0.095 = .16   | 0.08 + 0.078 = .15 | 0.27 + 0.023 = .292 | 0.26 + 0.010 = .27     |
|----------------------|----------------------|--------------------|---------------------|------------------------|
| CC                   | СС                   | CC                 | CC                  | CC                     |
| Via Social support   | Via Social support   | Via Social Support | Via Social Support  | Via personal Resources |
| 0.09 X 0.26 = 0.024  | 0.12 X 0.26 = 0.034  | 0.13 X 0.26 = .033 | 0.15 X 0.26 = .039  | 0.15 X 0.27 = .04      |
| 0.14 + 0.024 = 0.164 | 0.07 + 0.034 = 0.102 | 0.08 + 0.033 = .13 | 0.27 + 0.039 = .30  | .0.26 + 0.04 = .30     |

*Total Effect of Personal Strain on NC through perceived job stress:*  $Y_{1a_2} = \beta_1 + (\beta_2 \ge \beta_3)$ 

*Total Effect of Personal Strain on NC through role of OT:*  $Y_{1b_2} = \beta_1 + (\beta_4 \ge \beta_5)$ 

*Total Effect of Personal Strain on NC through personal resources:*  $Y_{1c_2} = \beta 1 + (\beta 6 X \beta 7)$ 

*Total Effect of Personal Strain on NC through social support:*  $Y_{1d_2} = \beta_1 + (\beta_8 \times \beta_9)$ 

| β1  | β2  | β <b>3</b> | B4  | B5  | β6  | B7  | B8  | B9  | β10 | β11 | β12 | β13 | β14 | β15 | β16 | β17 | β18 | β19 | β20 | β21 | β22 | β <b>23</b> | β24 | β25 | β <b>26</b> |
|-----|-----|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|-----|-----|-------------|
| .28 |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |             |     |     |             |
| I   | .68 |            |     |     | I   |     |     |     |     |     | I   | I   | I   |     |     |     |     |     |     |     | I   | I           | I   |     |             |
|     |     | .33        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |             |     |     | I           |
|     |     |            | .27 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |             |     |     | I           |
| I   |     |            |     | .06 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |             |     |     | I           |
| I   |     |            |     |     | .38 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |             |     |     | I           |
| I   |     |            |     |     |     | .13 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |             |     |     | I           |
|     |     |            |     |     |     |     | .09 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |             | I   |     | I           |
| I   |     |            |     |     |     |     |     | .16 |     |     | I   |     |     |     |     |     |     |     |     |     |     | I           | I   |     |             |
| I   |     |            |     |     |     |     |     |     | .25 |     | I   |     |     |     |     |     |     |     |     |     |     | I           | I   |     |             |
| I   |     |            |     |     |     |     |     |     |     | .06 |     |     |     |     |     |     |     |     |     |     |     | I           | I   |     |             |
| I   |     |            |     |     |     |     |     |     |     |     | .31 |     |     |     |     |     |     |     |     |     |     | I           | I   |     |             |
| I   |     |            |     |     |     |     | I   |     |     | I   |     | .13 |     |     | I   |     |     |     |     |     |     |             |     |     |             |
|     |     |            |     |     |     |     |     |     |     |     |     |     | .12 |     | I   |     |     |     |     |     |     |             | I   |     | I           |
|     |     |            |     |     |     |     |     |     |     |     |     |     |     |     | I   |     |     |     |     |     |     |             | I   |     | I           |
| I   |     |            |     |     |     |     |     |     |     |     |     |     |     |     | .13 |     |     |     |     |     |     |             |     |     | I           |
|     |     |            |     |     |     |     |     |     |     | I   |     |     |     |     | I   | .15 |     |     |     |     |     |             |     |     |             |
|     |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     | .23 |     |     |     |     |             | I   |     | I           |
|     |     |            |     |     |     |     |     |     |     |     | I   |     |     |     |     |     |     | .02 |     |     | I   | I           | I   |     |             |
|     |     |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | .14 |     |     |             | I   |     | I           |
|     |     |            |     |     |     |     |     |     |     |     | I   |     |     |     |     |     |     |     |     | .13 | I   | I           | I   |     |             |
|     |     |            |     | I   | I   |     | I   |     |     |     | I   | I   |     |     |     |     |     |     |     |     | .14 | I           | I   |     |             |
|     |     |            |     | I   | I   |     |     |     |     |     | I   | I   |     |     |     |     |     |     |     |     | I   | .07         | I   |     |             |
|     |     |            |     | I   | I   |     |     |     |     |     | I   | I   |     |     |     |     |     |     |     |     | I   | I           | .08 |     |             |
|     |     |            |     | I   | I   |     |     |     |     |     | I   | I   |     |     |     |     |     |     |     |     | I   | I           | I   | .27 |             |
|     |     |            |     | I   | I   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | I   |             | I   |     | .26         |

# **APPENDIX C**

### KMO and Bartlett's Test

| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. |                    | .813     |
|--|--------------------|----------|
| Bartlett's Test of Sphericity                    | Approx. Chi-Square | 5926.718 |
|  | Df                 | 231      |
|  | Sig.               | .000     |

#### Communalities

|   | Initial | Extraction |
|---|---------|------------|
| Rate Occupational Therapist Representation  | .761    | .784       |
| Rate Occupational Therapist Representation at University                              | .853    | .943       |
| Impact of Occupational Therapist in Sustenance of Human Capital                       | .831    | .862       |
| Occupational therapist offers solutions to improves working efficiency                | .876    | .957       |
| Occupational therapist address concerns to improve organisational commitment]         | .847    | .869       |
| Occupational therapist counselling is effective in reducing different types of stress | .785    | .798       |
| Personal Strain – I   | .610    | .531       |
| Personal Strain II  | .499    | .541       |
| Personal Strain III   | .547    | .589       |
| Perceived Job Stress I  | .586    | .553       |
| Perceived Job Stress II   | .523    | .453       |
| Perceived Job Stress III  | .582    | .633       |
| Affective Commitment – I  | .638    | .776       |
| Affective Commitment II   | .545    | .547       |
| Normative Commitment I  | .488    | .488       |
| Normative Commitment II   | .543    | .675       |
| Continuance Commitment I  | .510    | .579       |
| Continuance Commitment II   | .512    | .477       |
| Personal Resources I  | .624    | .664       |
| Personal Resources II   | .621    | .694       |
| Social Support I  | .588    | .649       |
| Social Support II   | .546    | .420       |

Extraction Method: Maximum Likelihood.

| <b>Total Variance</b> | Explained |
|-----------------------|-----------|
|-----------------------|-----------|

|        |       | Initial Eigenval | ues          | Extractior | n Sums of Squar | ed Loadings                | Rotation<br>Sums of<br>Squared<br>Loadings <sup>a</sup> |
|--------|-------|------------------|--------------|------------|-----------------|----------------------------|---|
| Factor | Total | % of Variance    | Cumulative % | Total      | % of Variance   | % of Variance Cumulative % |   |
| 1      | 5.351 | 24.324           | 24.324       | 4.718      | 21.446          | 21.446                     | 3.480   |
| 2      | 4.331 | 19.687           | 44.011       | 1.241      | 5.641           | 27.087                     | 3.565   |
| 3      | 2.654 | 12.065           | 56.076       | 3.790      | 17.226          | 44.313                     | 3.656   |
| 4      | 1.627 | 7.394            | 63.470       | 2.711      | 12.323          | 56.636                     | 3.812   |
| 5      | 1.328 | 6.036            | 69.506       | 1.297      | 5.898           | 62.534                     | 2.944   |
| 6      | 1.114 | 5.066            | 74.572       | .726       | 3.300           | 65.834                     | 2.635   |
| 7      | .899  | 4.086            | 78.658       |            |                 |                            |   |
| 8      | .639  | 2.904            | 81.562       |            |                 |                            |   |
| 9      | .608  | 2.765            | 84.327       |            |                 |                            |   |
| 10     | .517  | 2.348            | 86.675       |            |                 |                            |   |
| 11     | .462  | 2.102            | 88.777       |            |                 |                            |   |
| 12     | .362  | 1.645            | 90.421       |            |                 |                            |   |
| 13     | .339  | 1.543            | 91.964       |            |                 |                            |   |
| 14     | .301  | 1.368            | 93.332       |            |                 |                            |   |
| 15     | .264  | 1.202            | 94.534       |            |                 |                            |   |
| 16     | .254  | 1.157            | 95.690       |            |                 |                            |   |
| 17     | .229  | 1.042            | 96.732       |            |                 |                            |   |
| 18     | .211  | .960             | 97.693       |            |                 |                            |   |
| 19     | .182  | .827             | 98.520       |            |                 |                            |   |
| 20     | .155  | .706             | 99.227       |            |                 |                            |   |
| 21     | .092  | .418             | 99.644       |            |                 |                            |   |
| 22     | .078  | .356             | 100.000      |            |                 |                            |   |

Extraction Method: Maximum Likelihood.

a. When factors are correlated, sums of squared loadings cannot be added to obtain a total variance.

|  |      |      | Fac  | ctor |      |      |
|--|------|------|------|------|------|------|
|  | 1    | 2    | 3    | 4    | 5    | 6    |
| The representation of professional occupational therapist in Education sector                                    |      |      | .835 |      |      | ĺ    |
| The representation of professional occupational therapist at your institution                                    |      |      | .991 |      |      |      |
| The impact of professional occupational therapist in the sustaining human capital in your institute              |      |      | .884 |      |      |      |
| Occupational therapist offers advices/solutions that improves working efficiency                                 |      |      |      | .987 |      |      |
| Occupational therapist address concerns that improve organisational commitment                                   |      |      |      | .903 |      |      |
| Occupational therapist counselling is effective in reducing different types of stress                            |      |      |      | .839 |      |      |
| I work under tight time deadlines.   | .707 |      |      |      |      |      |
| I frequently make mistakes in my work.   | .731 |      |      |      |      |      |
| Lately, I respond badly in situations that normally wouldn't bother me.  | .795 |      |      |      |      |      |
| While relaxing I frequently think about work   | .689 |      |      |      |      |      |
| I by myself usually find solution for my problems at work.   | .556 |      |      |      |      |      |
| I really feel as if this university's problems are my own  |      |      |      |      | .724 |      |
| I would be very happy to spend the rest of my career with this organization                                      |      |      |      |      | .832 |      |
| I feel a moral obligation to pursue my career path with this university because loyalty is more important for me |      |      |      |      | .716 |      |
| One of the reasons behind working here is I receive emotional and moral support.                                 |      |      |      |      | .558 | .411 |
| Right now, staying with my organization is a matter of necessity as much as desire                               |      |      |      |      |      | .802 |
| I am not afraid of what might happen if I quit my job without having another one lined up.                       |      |      |      |      |      | .716 |
| When I need suggestions on how to deal with a personal problem, I know someone at university I can turn to.      |      | .654 |      |      |      |      |
| There is someone I could turn to for advice about making career plans or flexible hours.                         |      | .798 |      |      |      |      |
| I get a social support from my peers and other members.  |      | .846 |      |      |      | 1    |
| There is at least one person in this university who listen to my problems.                                       |      | .798 |      |      |      | 1    |
| I am expected to do many different tasks in too little time.   |      | .763 |      |      |      | 1    |

Pattern Matrix<sup>a</sup>

Extraction Method: Maximum Likelihood. Rotation Method: Promax with Kaiser Normalization.<sup>a</sup> a. Rotation converged in 7 iterations.

# **APPENDIX D**

# **Questionnaire:**

This survey is to examine the relationship between occupational stress and organisational commitment in Education sector of UK and Pakistan. The participants are teaching (lecturers) and administrative staff of universities. The findings will be used only for academic purpose. All information and details shared by participants will be kept confidential. If you may decide to opt out at any stage of survey, you are allowed to do so. It will take approximately 3-to-5 minutes to answer all questions.

### A) Demographic information:

**1. Gender**(*Please tick the appropriate option*)

| Male              |  |
|-------------------|--|
| Female            |  |
| Prefer not to say |  |

# 2. Age Bracket(Please tick the appropriate option)

| 18-25       |  |
|-------------|--|
| 26-35       |  |
| 36-45       |  |
| 46-55       |  |
| 56-65       |  |
| 66 or Above |  |

### **3. Education**(*Please tick the appropriate option*)

| High School         |  |
|---------------------|--|
| College             |  |
| Vocational Training |  |
| Bachelors           |  |
| Masters             |  |
| Doctorate/PhD       |  |

Other, Please specify

# **4. Year of Experience in Education Sector**(*Please tick the appropriate option*)

| Less than a year |  |
|------------------|--|
| 1-2 years        |  |
| 3-5 years        |  |
| 6-8 yaers        |  |
| 9-12 years       |  |
| 13-15 years      |  |
| 16 or Above      |  |

# **5.** Faculty(*Please tick the option best describe you*)

Teaching Staff

Non-teaching Staff  $\Box$ 

# **B. Attitudinal and Behavioural questions:**

| I. Rate the following statements:   |   |     |     |     |     |     |     |     |     |     |     |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| (0=0,<br>0.1=10%1.0=100%).  |   |     |     |     |     |     |     |     |     |     |     |
| Low   |   |     |     |     |     |     |     |     |     |     |     |
|   | 0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| The representation of professional occupational therapist in Education sector                             |   |     |     |     |     |     |     |     |     |     |     |
| The representation of professional occupational therapist at your institution                             |   |     |     |     |     |     |     |     |     |     |     |
| The impact of professional occupational<br>therapist in the sustaining human capital<br>in your institute |   |     |     |     |     |     |     |     |     |     |     |

| II. Rate the following statements:  | 1 | 2 | 3 | 4 | 5 | 6 | N/A |
|---|---|---|---|---|---|---|-----|
| (Strongly Disagree=1, Disagree= 2, 3= Moderately Disagree, 4 =<br>Moderately Agree, 5 = Agree, 6= Strongly Agree) |   |   |   |   |   |   |     |
| Occupational therapist counselling is effective in reducing   |   |   |   |   |   |   |     |
| different types of stress   |   |   |   |   |   |   |     |
| Occupational therapist offers advices/solutions that improves<br>working efficiency                               |   |   |   |   |   |   |     |
| Occupational therapist address concerns that improve organisational commitment                                    |   |   |   |   |   |   |     |

| III (A). Rate the following statements:   | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| (Strongly Disagree=1, Disagree= 2, 3= Moderately Disagree, 4 = Moderately<br>Agree, 5 = Agree, 6= Strongly Agree) |   |   |   |   |   |   |
| I am expected to do many different tasks in too little time.  |   |   |   |   |   |   |
| I work under tight time deadlines.  |   |   |   |   |   |   |
| <b>(B).</b>   |   |   |   |   |   |   |
| I frequently make mistakes in my work.  |   |   |   |   |   |   |
| Lately, I respond badly in situations that normally wouldn't bother me.   |   |   |   |   |   |   |
| (C).  |   |   |   |   |   |   |
| While relaxing I frequently think about work  |   |   |   |   |   |   |
| I by myself usually find solution for my problems at work.  |   |   |   |   |   |   |

| IV (A). Rate the following statements:  | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| (Strongly Disagree=1, Disagree= 2, 3= Moderately Disagree, 4 = Moderately<br>Agree, 5 = Agree, 6= Strongly Agree) |   |   |   |   |   |   |
| I really feel as if this university's problems are my own   |   |   |   |   |   |   |
| I would be very happy to spend the rest of my career with this organization                                       |   |   |   |   |   |   |

| <b>(B).</b>   |  |  |  |
|---|--|--|--|
| I feel a moral obligation to pursue my career path with this<br>university because loyalty is more important for me |  |  |  |
| One of the reasons behind working here is I receive emotional and moral support.                                    |  |  |  |
| (C).  |  |  |  |
| Right now, staying with my organization is a matter of necessity as much as desire                                  |  |  |  |
| I am not afraid of what might happen if I quit my job without having another one lined up.                          |  |  |  |

| V (A). Rate the following statements:   |  |  | 3 | 4 | 5 | 6 |
|---|--|--|---|---|---|---|
| (Strongly Disagree=1, Disagree= 2, 3= Moderately Disagree, 4 = Moderately<br>Agree, 5 = Agree, 6= Strongly Agree) |  |  |   |   |   |   |
| When I need suggestions on how to deal with a personal problem,   |  |  |   |   |   |   |
| I know someone at university I can turn to.   |  |  |   |   |   |   |
| There is someone I could turn to for advice about making career   |  |  |   |   |   |   |
| plans or flexible hours.  |  |  |   |   |   |   |
| I get a social support from my peers and other members.   |  |  |   |   |   |   |
| There is at least one person in this university who listen to my  |  |  |   |   |   |   |
| problems.   |  |  |   |   |   |   |

| VI (A).Tick one of the following options that could be a prime reason for your stress at workplace:   |                    |                     |  |  |  |
|---|--------------------|---------------------|--|--|--|
| Personal Factors (Family problem, financial problem, personality)                                     |                    |                     |  |  |  |
| Organisational Factors (Role Demand, Task Demand, Organisational Structure,                           |                    |                     |  |  |  |
| leadership, interpersonal relationship, Life-cycle of the organisation)                               |                    |                     |  |  |  |
| <b>Environmental Factors</b> (Economic uncertainty, Political uncertainty, Technological uncertainty) |                    |                     |  |  |  |
| VI (B). Based on your above section, tick one of the following option                                 |                    |                     |  |  |  |
| Personal Factors  |                    |                     |  |  |  |
| Family Problems   | Financial Problems | Personality Clashes |  |  |  |
| Organisational Factors  |                    |                     |  |  |  |

| Role   | Task          | Organisational | Leadership  | Interpe | ersonal | sonal Life-cycle    |  | the |
|--|---------------|----------------|-------------|---------|---------|---------------------|--|-----|
| Demand $\Box$  | Demand $\Box$ | Structure 🗆    |             | relatio | nship 🗆 | organisation $\Box$ |  |     |
|  |               |                |             |         |         |                     |  |     |
| Environmental Factors  |               |                |             |         |         |                     |  |     |
|  |               |                |             |         |         |                     |  |     |
| Economic Uncertainty  Political Uncertainty  Technological Uncertainty |               |                | ogical Unce | rtainty |         |                     |  |     |

| VII. Tick one of the following options that could be a prime effect of your stress at workplace: |   |  |  |  |
|--|---|--|--|--|
|  |   |  |  |  |
| Behavioural (Disturb eating habit, Disturb sleep, procrastinating or responsibilities,           |   |  |  |  |
| Using alcohol or cigarettes to relax, Nervous habits (e.g. nail biting, pacing))                 |   |  |  |  |
| come account of elgarctics to relax, i ter tous month (e.g. null orang, pacing))                 |   |  |  |  |
| Physical (Aches and pains, Constipation, Nausea, dizziness, Chest pain, Rapid heart              | Π |  |  |  |
|  |   |  |  |  |
| rate, Frequent colds or flu)   |   |  |  |  |
|  |   |  |  |  |
| Cognitive (Memory problems, Inability to concentrate, Seeing only the negative,                  |   |  |  |  |
| Anxious thoughts, Constant worrying)   |   |  |  |  |
|  |   |  |  |  |
| Emotional (Depression, Anxiety, Moodiness, irritability or anger, Feeling                        |   |  |  |  |
| overwhelmed, Loneliness and isolation, Other emotional health problems)                          |   |  |  |  |
| over whenhed, Eohenness and isolation, other emotional health problems)                          |   |  |  |  |
|  |   |  |  |  |

Thank you for your feedback

# **Interview Questions:**

This interview is to is to examine the relationship between occupational stress and organisational commitment in Education sector of UK and Pakistan. The participants are teaching (lecturers) and administrative staff of universities. The findings will be used only for academic purpose. All information and details shared by participants will be will be kept confidential. If you may decide to opt out at any stage of interview, you are allowed to do so. It will take approximately 7-to-10 minutes to answer all questions.

# Q1: Do you know the purpose of research?

Q2: I would like to inform you that you may leave this interview at anytime if you feel to opt out

Q3: Tell me about your job role (teaching or non-teaching)?

Q4: How many years of experience you have in Education sector?

Q5: How do feel about it?

Q6: What do you like most about this job role?

and why?

# Q7: Is there anything that you do not like about this job?

Why?

**Q8: What effect does it have on your efficiency?** (question from who disliked anything about their job role)

Q9: Is there anything you do to overcome It?

If Yes, will you please share it?

Q10: Is there any representation of professional occupational therapist at your university?

If Yes, will you please share like the rate of representation such as 10%, 20%,...100%?

Q11: Do you think professional occupational therapist at organisation is effective?

If yes, How?

If not, Why?

Q12: Have you ever used professional occupational therapist services?

If yes, Did you find it useful?

Q13: Are you aware of social support at workplace?

If yes, will you please share according to you what it is?

Q14: Do you have it here?

If yes, Have you ever used it?

\_\_\_\_

If you may please share your experience

Q15: Is it of any use?

Have you gain any emotional or moral support through it?

Q16: What do you think about organisational problem that you may be facing or had faced before?

\_\_\_\_\_

If you may please explain a little more

Q17: What is your view about job loyalty.

Do you see it inside your organisation?

If yes, how visible?

Q18: Is there any organisational stress management programme inside your organisation?

If yes, have you ever used it?

If yes, did it help you? If yes, how much?

Q19: How happy you would be in pursuing your career with another organisation?

\_\_\_\_\_

\_\_\_\_

If yes, Please explain why?

Thank you for your cooperation

# **APPENDIX E**

# **Determining Sample Size:**

$$\mathsf{M.E} = \frac{z\sqrt{\widehat{p}(1-\widehat{p})}}{n}$$

z = 1.96 with 95% confidence

$$M.E = \pm 4\% (0.04)$$

n= Sample Size

 $\hat{p}$  = prior judgement of the correct value of p (Probability to have more than 20% of population)

 $\mathbf{n} = \frac{\hat{p}(1-p)z^2}{M \cdot E^2}$ 

$$M.E = \frac{z\sqrt{\hat{p}(1-\hat{p})}}{n}$$

$$n = \frac{z\sqrt{\hat{p}(1-\hat{p})}}{M.E}$$

$$n = \frac{\hat{p}(1-p)z^{2}}{M \cdot E^{2}}$$

$$n = \frac{0.2 (1-0.2)(1.96)^{2}}{(0.04)^{2}}$$

$$n = \frac{(0.2 X 0.8)X (1.96 X 1.96)}{0.04 X 0.04}$$

$$n = \frac{0.16 X 3.8414}{0.0016}$$

$$0.614624$$

$$n = 384.14$$

 $\mathbf{n} = \frac{0.614624}{0.0016}$ 

 $\mathbf{n} = \frac{0.16 X \ 3.8414}{0.0016}$ 

Thus, using Jamal's marginal error formula, minimum sample size is 384 respondents to draw logical conclusion.

# **APPENDIX F**

### **Demand Control Model**

"Oversimplification assumption" could be accredited as a reason for this variation because it is likely possible those environmental demands are given higher preference (Payne, Jick, and Burke, 1982). Furthermore, environmental demands could be a reason for a change in the differences in the outcome as not all individuals are affected by the events in a similar manner (Payne *et al.*, 1982). Another criticism is posed by Carayon (1993) that multi-dimensional constructs are broader aspects whereas the control conceptualization is a rather small indicator. Moreover, Cox *et al.*, (2000) found that instead of the other types of demands, the demands' definition is based on workload under the DCS model. Furthermore, a desirable state is assumed to be when there is high control under this model, taking into account that negative demands' positive moderator whereas it is likely possible that some people may not fin job control to be a desirable aspect thus might find stressful. For instance, self-efficacy's lower sense being reported (Mark and Smith, 2008). Hence, the stress process' complexity is not clearly catered by this model however it could be effective if combined with other models of stress.

### **Perceived Organisational Support**

According to Eisenberger *et al.*, (1986), the OST argues that organisations are assigned to have human-like attributes by employees thus tends to promote the development of perceived organisational support (POS) (Haque and Yamoah, 2014). Interestingly, Levinson (1965) argued that instead of personal motives, the agents operating on organisation's behalf are often viewed and perceived as working on intentions of the organisation. Additionally, organisation's personification further inclines due to its financial, moral, and legal responsibilities for its respective agent's actions through organisational culture, norms, and policies. Moreover, these elements tend to offer continuation and stipulation of role behaviours along with the organisational power agent has over other individuals within the organisation. It leads to developing a perception among the employees towards their respective organisations as of how they are, or the organisation will be treating them.

Organisational support theory argued that an employee's abilities for attaining desired outcomes through organisational support are restricted by the constraints of the organisation and environment because they are vulnerable to such constraints (Eisenberger et al., 1986; cited

Haque and Yamoah, 2014). Hence, to further explore the notion, the POS concerning organisational commitment is evaluated in different sectors. The evidence from the education sector is that LaMastro (1999) found that teachers' experiences vary to a large extent. Conversely, Uchenna *et al.*, (2013) revealed that in the teaching sector, POS significantly affects the organisational commitment and performance of both teaching and non-teaching employees. Interestingly, there is no connection in these studies between stress and organisational commitment, considering the mediating or moderating effect of POS amongst teaching and non-teaching faculty.

Although different studies focused on different sectors, there is still no conclusive evidence from the education sector, particularly in a comparative analysis using institutional theory to explain whether organisational support is more closely perceived and associated with job satisfaction or employee engagement. Moreover, there is limited evidence in a comparative manner regarding the mediating and moderating role played by organisational support in occupational stress and organisational commitment.

The evidence from hospitality and tourism sector also showed that POS has a significant important role in the determination of the organisational commitment (Colakglu and Culha, 2010). Thus, it indicates that the higher is the personal attachment of employee towards the organisation; the better will be his/her performance because POS work as a defining factor. Nevertheless, the study findings of Kralj and Sonet (2011) reflect that not all employees in the hospitality sector is equally affected by the POS due to the age factor. Interestingly, the study found that old generation employees have higher POS in contrast to younger employees therefore older employees are more committed and engaged in their tasks in contrast to younger ones, having low level of commitment and engagement (Kralj and Sonet, 2011).

It is reflected from the above discussion that employee engagement is one essential development that leads to increase organisational commitment. Hence, it could be argued that there exists a relationship between employee engagement and POS. To further elaborate this linkage, different sectors are taken into account. For instance, from the banking sector, Hassan *et al.*, (2014) showed that employees receiving higher organisational support report higher engagement towards routine task and have higher job satisfaction. Furthermore, work of Mishra *et al.*, (2013) found that in both public and private banking sector, organisational support system is a driving force in creating employee engagement which is also the most critical factor for the business success. Thus, it reflects that irrespective of the type of bank, the

association between variables of interest is confirmed. Additionally, Alvi and Abbasi (2012) argued that in developing country such as Pakistan, employee engagement is evident to be increased among the banking sectors' employees through organisational support programme.

However, large number of studies has shown more drift towards finding job satisfaction in relation to organisational support rather than employee engagement. For instance, Wickramasinghe and Wickramasinghe (2012) in lean manufacturing industry and Judeh (2014) from the textile and clothing sector confirmed that organisational support programme is effective in increasing job satisfaction and higher performances at workplace. Thus, this study supports the notion of Eisenberger *et al.*, (1997).

Additionally, to briefly support the argument it can be stated that AC and POS has strong relationship in engineering and petrochemical sector. However, moving from private to public sector, the relationship becomes moderate or negative. Not only is the nature but there also inconsistent results regarding the visibility of the all antecedents equally. For instance, literature revealed that NC is less visible in the banking sector while AC and CC are more prominently visible. Interestingly, the variation is highly evident in the IT sector as nonfinancial rewards tend to increase JS while in the healthcare sector organisational support system leads to increase AC. Moreover, from the banking, insurance, pharmaceutical, and telecommunication sector, a strong and positive relationship is evident between NC and POS. Having said that, from the financial sector NC is not significantly linked with POS but AC and CC is significantly associated with POS. the CC is highly visible in the public sector due to POS while NC is lower. However, some studies showed no linkage of NC with JS or POS. Conversely, in the education sector, all three antecedents are found to some extent to be linked with JS and POS however in public sector it is relatively higher than private sector's employees. Furthermore, POS and OC have significant relationship which is exactly opposite in the hotel sector. Despite that, organisational support system has a positive relationship with OC in textile and lean manufacturing sectors.

Although, it can be argued that the literature at hand has only limited studies to establish the relationship between variables of interest in comparative economies. There is likely possibility that in the education sector of developed and developing countries may vary. Interestingly, now that OC and its antecedents are established with POS and JS in various types of sectors thus the study moves into the direction of examining the OC and its dimensions with occupational stress.

#### Job Satisfaction and Organisational commitment in various sectors

From information technology (IT) sector, evidence is presented by Martins and Coetzee (2007) confirming that when there is little or no JS then there are likely chances of low organisational commitment. Moreover, the study also showed that in the absence of JS, there is high employee turnover. Thus, it can be comprehended from the above evidence that in the absence of JS, there is a decline in the employees' continuance commitment. Additionally, Shaukat et al., (2012) in the banking sector found that OC increases due to JS, especially when organisations provide adequate organisational support and supervision to its workforce. This above study finding indicates that all three types of commitment; AC, NC, and CC is positively associated with the JS in the banking sector. However, Waqas et al., (2012) carried out in the education sector showed that job satisfaction among the teachers is higher due to organisational support at workplace and the JS leads to enhance the quality of services provided by these lecturers enhance at the university level. This is a significant study however; the study has only focused on the teaching faculty. There is a likely chance that the JS in relation to OC may vary to certain degree among the administrative faculty at university level. Moreover, as previously the literature review has indicated that stress may vary for persons in different types of job so this is likely possible that JS in relation to OC might vary significantly due to various stress for contrasting types of employees in contrasting economies.

Rothman and Coetzer's model (2002) showed that job satisfaction is significantly vital in the determination of the job's reaction. Moreover, the authors also stated that in the situation of appropriate organisational support's presence and provision to the employees the JS work as a mediator in the determination of organisational effectiveness. Thus, it reflects that the organisational effectiveness does rely to some extent upon the employee's content. Interestingly, Saar and Judge (2004) stated "the most productive employees are those who are happy with their work and organisations". Hence, it reflects that organisations are able to accomplish their goals and targets through employees' job satisfaction. Thus, it could be argued that organisational commitment is enhanced through various organisational support systems such as social support at workplace, proper training and development programme, work-life balance, provision of equipment and tools, provision of healthy and safe working environment, fair and transparent managerial practices, etc as these attributes leads to increase employees' job satisfaction (Haque and Yamoah, 2014). The evidence from textile industry is found from Miarkolae and Mirkolae (2014) that has confirmed that above mentioned organisational support features play constructive role in the creation of positive relationship between JS and

OC. Conversely, in the household sector, most of the attributes of organisational support programmes are not effective at all; particularly provision of healthy and safe environment as there is negative relationship evident from Rutherford *et al.*, (2010) among the salespersons working on commission bases.

Moreover, Robin (1993) argued that attitude towards the job is vital in the determination of job related satisfaction or dissatisfaction as those who report positive attitude towards job are satisfied while those who show negative attitude towards job tasks are not satisfied. However, there is no conclusive evidence whether the attitude determines job satisfaction or satisfaction leads to develop a certain type of attitude among the workers. Nevertheless, there are large number of empirical researches regarding job satisfaction's key attributes are present but interestingly, one of the most significant attributes that predicts job satisfaction is organisational support programme (Randal *et al.*, 1999; Rhodes and Eisenberger, 2001; Stamper and Jholke, 2003; Haque and Yamoah, 2014). Interestingly, Haque and Yamoah (2014) considered JS as a mediator for enhancing organisational commitment. Additionally, number of researches carried out after year 2000 confirmed that JS and OC are positively associated in the different types of organisational settings (Lam and Zhang, 2003; Karatepe and Uludag, 2007; Yang, 2010; Gulnu et al., 2010; Haque and Yamoah, 2014). However, there is also the study in recent times as Ahmed and Yekta (2010) carried out a study in the cement factory which showed that there is no significant relationship between JS and POS.

Since, the present study focuses on the relationship between occupational stresses (OS) and organisational commitment (OC) therefore the linkage of JS with OC cannot be ignored during the investigation process. The inclusion of different types of personal variables was added to investigate the variables of interests. From GAS Model and psychological approach, a foundation was built but mainly the DRIVE model was taken into consideration with extension from Haque's different studies carried out on the topic to measure the impact of varying occupational stress on the distinctive antecedents of OC in complex environment; AC, NC, and CC respectively. Interestingly, a range of studies showed that occupational stress (OS)/ job stress and job satisfaction are negatively linked (Healy and Mackay, 2000; Sveinsdo, Biering, Ramel, 2006; Ahsan *et al.*, 2009; Khatibi, Asadi, and Hamidi, 2009; Haque and Oino, 2017). On the other hand, organisational commitment and job satisfaction are positively associated (Markovitz, Davis, and Dick, 2007; Lambert and Hogan, 2009; Garland, Mccarty, and Zhao, 2009; Khatibi *et al.*, 2009; Haque and Oino, 2017). Thus, there is no conclusive evidence regarding the nature of relationship between JS and OC and JS and OS within one framework

within the education sector while focusing on contrasting gender, faculty, and economies. Moreover, Khatibi *et al.*, (2009) argued that there is no confirm evidence regarding nature of JS to be consistent with OC in all types of sectors, particularly sectors providing services. Additionally, at present there is no conformity about the job satisfaction's nature with OS and all types of OC; AC, NC, and CC.

# POS and AC

Organisational commitment is viewed by Allen and Meyer (1990) as a psychological bond between employees and their respective organisations. Affective commitment is the one of the three dimensions of OC. According to Allen and Meyer (1990), "AC indicates the employees' emotional attachment towards their organisation and they enjoy being affiliated with their organisation. Additionally, AC also demonstrates the individual's desire for staying with the same organisation" (p. 02). Interestingly, Eisenberger *et al.*, (1986) in the context of social exchange framework explained that high level of perceived organisational support (POS) enhances the AC among the employees.

From the petrochemical industry, it is evident that employees' affective commitment tends to increase due to the presence of perceived organisational support (POS) (Gukol *et al.*, 2012). On the other hand, from the engineering firm, it is found that POS is strongly associated with the employees' willingness to stay with the same organisations (Porter *et al.*, 1974). Furthermore, from the diary cooperatives, Driscoll and Randall (1999) reported that organisational support system prevailing and the belief of employees in it leads to enhance employees' attachment towards the organisations. However, Hemdi (2009) from the IT sector showed that there is no significant relationship between POS and AC whereas as Eisenberger, et al., (2001) revealed that in the presence of a social identification with the organisation (2016) in the IT sector, found that AC and social support and AC and POS varies between males and females in the contrasting economies. Thus, this indicates that there are mix findings regarding the relationship. Interestingly, the recent studies of Haque et al., (2016) concluded that occupational stress affects the AC of males and females differently in different economies.

However, there is limited evidence from the education sector regarding POS and AC, particularly in the presence of occupational stress.

## POS and NC

Bolon (1993) argued that normative commitment (NC) is obligatory feelings towards the norms of the organisations. Interestingly, Weiner (1982) explained it as the loyalty towards assign tasks and norms of the organisation whereas Meyer and Allen (1991) considered it as "a feeling of obligation". Nevertheless, Wiener (1982) argued that NC is resulting from the societal norms operating in the societies as family, marriage, religions etc are the attributes of societies to which individuals are drawn and therefore develops the normative commitment (cited Haque and Yamoah, 2014). In the same manner, the different attributes of the society have influenced the organisational commitment of employees as the workforce of organisations are constitute of the people from the society therefore at times some employees show more while other may show low or no moral obligation towards their organisations, depending upon their individual differences (Haque and Yamaoh, 2014).

Hence, through norms' mutuality, the relationship between NC and POS could be further explained. Inducement and returning back of an individual are resultant of normative commitment. Therefore, in the due process of inducement-and-returning-back, there is likely possibility that employees experiencing specific types of experiences will be acting and reacting according to their experiences. For example, the obligatory feelings among the employees develop when the view that organisation is treating them in a fair manner or they are rewarded for demonstrating efforts and it leads to develop the feelings of returning back the favour to the organisation. Such feelings indicate that they are by nature merely obligatory (Haque and Yamoah, 2014). Therefore, it can be argued that employees feel they are obliged towards their respective organisations when they perceive that organisations' treatment is fair and good. Hence, it develops the feeling that being treated well needs to be returned by the individuals through showing that the tasks assigned to them by the organisation must be fulfilled by all means (Haque and Yamaoh, 2014). Interestingly, Haque and Yamoah (2014) argued that in the presence of high NC, the employees do not think much about doing a certain thing is morally right or not, but they simply follow the procedures as obligation upon them.

Interestingly, out of all three dimensions of the organisational commitment, NC is evident to be studied and explored relatively lower in comparison to AC and CC. Thus, it is still an emerging concept requiring further investigation but from past Meyer and Allen's (1997) research is significant because this is the first conclusive evidence where NC is studied in relationship with POS. According to Meyer and Allen (1997), the psychological contract between employees and organisation engages employees to develop a belief that perceived

organisational support at workplace is existing thus in return fulfilling the organisational goals and objectives are due obligation.

Interestingly, a detailed exploratory study of Ucar and Ukten (2010) found the relationship between POS and NC to be positively linked in various sectors including; telecommunication, chemical, insurance, pharmaceutical, and banking sectors respectively. However, from the financial sector, Meyer *et al.*, (2002) reported that although NC does prove significant in attaining the desired organisational goals but in comparison to AC and CC, its relationship is relatively low with POS. Additionally, Ahmed and Yekta (2010) in the cement industry found that job satisfaction and employees' performances are not significantly affected by the NC as there is no relationship between POS and NC.

Etzioni and Gross (1985) argued that in order to ensure that employees' behaviours and attitudes are positively controlled by the organisations, they adopt different types of approaches. However, it depends upon the types of the organisations as there can be affective organisations and on the other hand normative organisations (Etzioni and Gross, 1985). One of the ways used by affective organisations to control the behaviour and attitude of employees uses increment in salary as an approach whereas recognition of employees and the special opportunities for the employee engagement and development are the approaches undertaken by normative organisations (ibid). Interestingly Ostroff (1993) found that teachers are more effective in their performances when there is POS as it affects their NC and JS in positive manner. Additionally, Reyes and Pounder (1993) found that in comparison to utilitarian value approach, teachers having higher NC along with higher job satisfaction due to organisational support. Furthermore, LaMastro (1999) found that teachers working at the university report highly professionalized commitment due to normative commitment. Interestingly, the normative view is argued by LaMastro's (1999) study as "teachers show 'sense of calling' by showing that it is a moral obligation to serve the institution, resulting from the effective organisational support programme" (p. 04).

### POS and CC

According to Allen and Meyer (1997), a desire and willingness shown by the individual to continue with the same organisation is organisational commitment known as continuance commitment (CC). Interestingly, Haque and Yamoah (2014) consider staying with the same organisation is viewed by employees as long-term "non-transferable" investment. Additionally, the non-transferable investment is considered to be healthy relationship of employees with the

peers and other employees thus leading to long term stay (Reichers, 1985). Due to healthy relationship with others at the organisation makes it significantly difficult for the employees to leave organisation (Allen and Meyer, 1997). The two main concepts of continuance commitment include; alternatives and investments. Interestingly, Fredrick *et al.*, (2010) found that both argue that alternatives and investments are interlinked with the perceived organisational support. Moreover, the organisational support at workplace leads to develop the organisational culture that enhances CC. Furthermore, in the absence of alternatives and AC, there are likely chances of employees quitting the organisations.

Interestingly, Perry (1997) and Allen and Meyer (1997) showed that in comparison to private sector, the employees of public sector shows higher CC. Interestingly, Lio (1995) argued that job security is the main factor behind the employees' higher continuance commitment in the public sector. Furthermore, from the banking sector also it is evident that public sector's employees have higher CC in comparison to private banking sector (Suleiman, 2013). On the other hand, from the healthcare sector, the CC is evident in both private and public sector and it is positively associated with POS and Job satisfaction (Halepota and Irani, 2010). Additionally, same study showed that organisational support programme is positively associated with CC in public sector. On the other hand, a study conducted by Yanez and Figueroa (2011) revealed that in the public organisations (prisons) employees have higher CC due to JS due to presence of POS however, men report higher continuance commitment in comparison to women employees. Similarly, from the education sector, we found high level of continuance commitment is shown by employees of private institutions in contrast to private (Seidu and Boache-Mansah, 2012). Furthermore, males have higher CC than their counterparts (ibid).

From the various sectors relationship between POS, JS, and organisational commitment is established. Additionally, from education sector, these relationships are established (Ostroff, 1993; Reyes and Pounder; 1993; LaMastro, 1999; Malik *et al.*, 2010; Seidu and Boache-Mansah, 2012). However, the nature of relationship is inconsistent among the variables of interest. Nevertheless, one significant notion identified from the literature at hand is that organisational commitment itself is evident to be multivariate in all types of the sectors including education sector as largely it a result of job satisfaction. Furthermore, the antecedents of the organisational commitment are explored in association with the job satisfaction and actual and perceived organisational support programme in various sectors. It can be concluded

that not all these three antecedents have consistent relationship with JS or POS in any one particular dimension.

### **Role of Occupational Therapists:**

Interestingly, CAOT (2010) stated that occupational therapist recognizes the employees' health and working environment by taking into account the various interacting factors. Interestingly, the choices, performances, organisational commitment, and job-related content is evident to increase due to the presence of occupational therapists at workplace to develop a linkage between workers and workplace (ibid). Furthermore, the work-related issues are addressed by the occupational therapist through their own professional approach as they consider the needs of the work, workers, and workplace all together (Townsend and Polatajko, 2007; CAOT, 2010; Haque and Aston, 2016). Therefore, it indicates towards the vital role played by the professional occupational therapist in reducing the occupational stress and improving the organisational commitment of the employees through looking after their wellbeing and health at the organisation. However, the analysis revealed that large number of studies that has considered the professional occupational therapist role inside the organisation in the developed countries. There is only limited evidence from the literature about role of therapist from developing countries. Interestingly, the comparative analysis regarding it in terms of economies is not sufficient. Nevertheless, studies have shown that although the role in western part is established but the effectiveness of role is still not explored to large extent while in eastern part the role is not very visible. Thus, there is a need of studies to explore it further.

# **Research Paradigm**

Ontology, epistemology, and methodology are elements of research paradigm. Axiology represents the theme and aspects given preference over other. Two fundamental types of research include; 'applied' and 'basic' research whereas qualitative, quantitative, and pragmatic (mixed) methods are sub-categorization of research types. inductive and deductive are two types of research approach.

Kuhn (1962) used research paradigm word for the first time in his book "The Structure of Scientific Revolution" for defining theoretical framework (de Gialdino, 2009; MacKenzie and Knipe, 2009; Mack, 2010). Moreover, MacKenzie and Knipe (2009) argued that theoretical framework (research paradigm) reflects development, analysis, and interpretation of knowledge in a rational way. On the other hand, research paradigm contains three important

elements namely; ontology (reality); epistemology (perceived reality); and methodology (procedure) respectively (Mack, 2010). Additionally, Mack (2010) state that knowledge's reality is determine as ontological stance and knowledge's perceived reality is epistemological stance whereas technique or pattern undertaken during research is methodology. Together all these three components make research paradigm.

Before explaining the components of research paradigm, it is significant to understand the meaning and nature of research paradigm. Interestingly, Atieno (2009) also emphasized on the significance of understanding the nature of research in order to determine selection of research paradigm. Interestingly as oppose to Mackenzie and Knipe's (2006) types of research paradigm, Atieno (2009) argued that research paradigm includes; positivist, interpretive or constructivist, and critical paradigm. selection of these paradigm types depends upon the nature of research (Atieno, 2009). Nevertheless, Easterby-Smith *et al.*, (2015) concluded that scientific and socio-anthropological research paradigm are main types with all other types of research paradigm such as positivist, etc are resultant of one of the two main types of research paradigm.

# Epistemology

previous empirical researches reflect existence of relationship between research variables to some degree however there is higher degree of variation due to interpretation of results as per own understanding and limitation of commencement of study to context specific region. Therefore, through this epistemological stance, present research attains aim of assessing and evaluating the variation in the variables in comparative manner, considering distinctive economies. managerial literature at hand reflected knowledge explored in critical realistic manner in relation to the nature of association between research variable thus, present study undertakes critical realism ontological stance with objective epistemology by constructing theoretical and conceptual framework in an attempt to address research problem at hand.

### **Research Philosophy**

Saunders, Lewis, and Thornhill (2013) proposed 'research onion' for explaining distinctive significant aspects of research methodology in separate layers. Interestingly, Saunders *et al.*, (2013) considered "research philosophy" important outer layer in research onion reflecting the theme enabling researchers in process of identifying the nature and development of background knowledge. On the other hand, Sekaran and Bougie (2010) defined research philosophy as

integral part in the research process because it reflects the knowledge and belief of a researcher. Furthermore, Cohen *et al.*, (2007) explained research philosophy by stating that it is undertaken to conceived knowledge in a narrow construct, reflecting researchers' preference for specific type of ideology and belief in carrying out research process. Interestingly, research philosophy provides guidance to the researchers in research process (Cooper and Shindler, 2006). Thus, it indicates that philosophy is part of research paradigm. Hence, research philosophy is a component of research paradigm that offers a theme or foundation for researchers to construct research process.

However, Gliner and Morgan (2000) found similar attributes between research philosophy and research paradigm. To support argument, authors stated perception, beliefs in accordance with reality, and model of individual observations respectively. Therefore, these authors emphasized on the notion that philosophy and paradigm is same concept with different names. Present study considers two terms as separate entities therefore considers Saunders *et al.*, (2013) "research onion" as vital concept to support argument. Interestingly, various scholars have criticised research onion by declaring it not vital however in social science discipline, it is effective in establishing gradual and systematic process for investigating research variables.

Interestingly, Marczyk *et al.*, (2005) argued that researchers undertake realism philosophical stance in an attempt of ensuring various distinctive theories opted so it could be tested meanwhile continue with development of new knowledge by expanding the realities in pragmatic manner. Conversely, Bryman (2012) explained that pragmatism philosophical stance is undertaken when researcher attempts to use and mix different techniques and tools in order to ensure results are valid and reliable. Hence, it indicates that triangulation process undertaken for exploring facts and findings in an attempt to attain valid and reliable conclusion is major theme under pragmatism and realism philosophical stance.

Bandaranayake (2012) stated that positivism philosophy follows laws of nature and reality while under interpretivism philosophical stance humans treated as social actors. Furthermore, realism and pragmatism philosophical stance core theme remains to be "independent of knowledge exist objects" therefore investigating research problem through combining interpretive and positivist philosophical stance. Additionally, realism and pragmatism to greater extent are similar because both use triangulation approach for exploring facts from different sources. In other words, realism philosophical stance serves foundation for pragmatism approach. Thus, study follows pragmatism philosophy by taking into account both

quantitative and qualitative tools and techniques with an attempt to extract "useful truth". Nevertheless, philosophy largely drifts more towards positivism, but it does not discard completely interpretivism. In actual, research starts with positivist stance while later support it with interpretivism. The investigation of research problem starts with exploring facts and findings from multiple valid and reliable sources so that quantitative and qualitative perspective attainment takes place. However, to larger extent positivist philosophical stance remains but in actual this research follows pragmatism philosophy.

Moreover, higher emphasis remains on the cultural and social experiences for drawing conclusion in qualitative manner (Marczyk *et al.*, 2005; Riemer *et al.*, 2012; Sekaran and Bougie, 2012; Saunders *et al.*, 2012). Therefore, the relationship explores for attaining qualitative aspect hence results examined by viewing individual experiences and perceived realities. Additionally, Mathew and Ross (2010) argued that there are various different types of cultures existing in the World and under interpretivism philosophy could be understood better because different perceptions, values, ideas, and experiences provide significant meaning through interpretation rather than statistical testing. Hence, the researchers aiming to explore phenomenon through interpretation rather than attaining numerical significance commonly undertake this type of philosophical stance.

### Grounds for factual and useful truth in thesis:

Fact is something that cannot be rejected or disputed. Fact is established and are acknowledged while truth needs to be acknowledged. These are not concrete and therefore requires discovery. If a statement has strong reasoning, then it is reality. While if one contradicts the very same fact with strong logic then it is also a reality. When two ideologies with strong reasoning contradict then both statements are said to be co-existing with all their contradictions. Facts are less likely to be malleable.

In metaphysics and the philosophy of language, truth denotes assertions, thoughts, beliefs or propositions presented in general terms to state a case that is presented as in agreement with certain facts. According to Peters (2018) the pragmatic theory of truth proposes that a belief is true or not on the basis of its usefulness (or uselessness) in the world. If the truth does not have any practical application it is not necessary be regarded as truth. According to Korte and Mercurio (2017), meanwhile, pragmatism is based on three assertions:

- absolute agnosticism – "it is (also called hard agnosticism, closed agnosticism, strict agnosticism, strong agnosticism) is the belief that it is not possible to know whether a

god/gods exists or not" (Hurley, 1889).utilitarian truth - "In normative ethics, the view that a person should pursue his own self-interest, even at the expense of others, and to any ethical theory that regards some acts or types of acts as right or wrong independently of their consequences" (Buignan, 1989).

 emotional knowledge - "It is created by emotions and feelings plays an important role in making decisions, and in business behavioral" (Bratianu, 2018). It is central in determining the behavior at workplace and market (Bratianu, 2018).

Pragmatism has several consequences on that section of Philosophy that depends on the foundations of Theodicy and Ethics. But the coherence theory truth as defined in terms of pragmatic theory has no application in the 'real' world but only a function if that very idea could be used as a model for predictions in the future. This is the reason pragmatic truth pertains to that section of truth that is learnt through the interactions in the real world, and not only in principle. It could be argued that as long as the successful applications far exceed the unsuccessful ones (and with far less damage caused then benefits created), then the proposition could be regarded as having been 'tested' in a positivistic sense and qualify as 'utilitarian' (the principle on 'the greatest good to the greatest number'.

However, there are numerous objections to pragmatism, particularly the possibility that a belief may work in a sense and fail in another, fail in one context and fail in another. Yet as Peters states (2018) pragmatism is a handy way of distinguishing true from the untrue in the sense that truth contains the possibility of producing predictable consequences in human life. It is therefore reasonable to focus on what works, being of considerable appeal in the fields of organisational behaviour and management. The theories of practice explain activities that are constantly performed, produced through entanglement of communities, action, materials, politics, tools, discourse and also agents. This perspective bridges differences in scientific paradigms, academic-practitioner interests and the theory-practice gap.

In our research we recognise both factual and useful truth, but our first priority is to establish factual truths concerning occupational stress, its consequences including for organisational commitments differentiated by gender, faculty (occupational segments in HE) in different economies. Having said that, the next step is to build on factual truth (numerically express relationships described with mathematical objectivity), crossing that grey line, which has been the reason for the confusion between the two. We remain interested in "useful truths" here explored through qualitative methods.

The fact of occupational stress has direct enough practical effects in the form of mental illness and a host of other consequences. It follows that the reduction or elimination of occupational stress has the kinds of practical effects which pragmatists seek. Factually speaking, organisational stress is the outcome of the organisational pressure, again to be expressed numerically in this study; similarly, the components of organisational commitment are quantified along with the causes and consequences of stress in terms of gender, faculty, and economies, which we seek to avoid usefully.

#### **Type of Research**

Additionally, Hogue (2011) explained that when an individual observes a certain phenomenon on consistent bases by being part of workplace setting then it works as a motivation because he/she views certain features on regular intervals. Thus, this motivation enables researcher in constructing conceptual framework in a particular manner by defining axiological stance. Furthermore, human satisfaction interlinked to keenness and curiosity hence search and explores the aspects to find answers to the questions that keep them at unrest (Hogue, 2011). On the other hand, Hogue (2011) explained that interest plays significant role in shaping axiological stance particularly in the extraction of literature researchers considers the types of past studies and empirical researches that they personally find attractive and similar to their liking. This way particular type of literature receives preference over others. For instance, some researchers aiming to conduct exploratory research prefer usage of descriptive surveys, reflecting their axiological stance. Nevertheless, humans cannot live in vacuum forever a universal truth as at some stage of their lives they do interact with other humans and things. These interactions lead to form intrinsic and extrinsic motivation for particular types of features, aspects, factors, etc. Internal value system affects the perceptions of the researchers and human values have strong linkage with formation of axiological view (Creswell et al., 2009).

#### Advantages and disadvantages of Research Design

For instance, in true experimental research designs there is strong casual assessment and higher internal validity but slower in procedure whereas quasi experiment is speedy in comparison to true experiment but relatively lower internal validity (Trochin and Donnelly, 2006). On the other hand, casual assessment and lower internal validity evident in non-experimental research design but it is the quickest of all three (ibid).

### **Research Design**

Interestingly, Mauz (2013) argued that researcher's axiological stance plays significant role in determining the type of research design. Additionally, consideration of any particular or mixed research design for investigating research problem depends on the axiological stance of researcher. Moreover, research variables in social science researches explored commonly through co-relational research design, meta-analytic, semi-experimental, descriptive, and experimental (ibid). On the other hand, Bryman (2012) argued that cohort, cross-sectional, cross-sequential, and longitudinal are types of research designs commonly considered in social science researches. Interestingly, Creswell (2012) argued that participant's grouping, respondent's selection, and construction of hypotheses are significantly important in considering specific types of research design. Nevertheless, Sekaran and Bougie (2007) stated that participant's availability, participant's attributes, timeframe, and measurement analysis techniques are important determinants of selection of research design. Moreover, Ader et al., (2008) explained that purpose of research is vital aspect according to which fixed or flexible research designs often used in social science researches. Furthermore, Ader et al., (2008) explained that experimental and non-experimental researches follow fixed research designs whereas case studies, grounded theory, and ethnographic studies follow flexible research designs.

In social science researches, panel approach undertaken for quasi-experimental studies (Power and Elliot, 2006). Interestingly, cohort studies are also known as quasi-experimental studies (ibid). Quasi-experimental design is most suitable when a researcher is aiming investigation of research variables in different time intervals in order to measure the variations by observing in different times lags (ibid). Interestingly, Sekaran and Bougie (2012) gave similar explanation for longitudinal research design. Thus, quasi-experimental is longitudinal research design. However, Shadish *et al.*, (2002) argued that true experimental research design is in actual longitudinal research design. Interestingly, Kendra (2015) posed an argument that when a researcher carries on for investigating research variables for number of years then he/she follows co-relational research design. Hence, co-relational and true experimental research design is also known as longitudinal research. Additionally, Christmann and Badgett (2008) and Kendra (2015) argued that longitudinal research design is to examine the variations taking place in different time intervals. Conversely, researchers aiming for investigating participants only once in a given time interval follows cross-sectional research design because it is for shorter time and only studies the events once.

### **Sampling Techniques**

Simple random sampling is unrestricted sampling technique that offers higher generalization with least biases (Sekaran and Bougie, 2012). Nevertheless, Hair *et al.*, (2007) argued that although higher accuracy in selection pattern is key strength but the attribute of biasness is interlinked with this sampling technique (ibid). Interestingly, various authors argued that the sampling errors chances tend to reduce if the sample size is small but studying the events twice is not possible (Procter, 2003; Yates *et al.*, 2008; Sekaran and Bougie, 2012; Meng, 2013). In order to improve the efficiency of probability of sampling, researchers often prefer the usage of complex probability sampling to simple random sampling (Sekaran and Bougie, 2012). "Systematic sampling, stratified sampling, cluster sampling, area sampling, and double sampling are types of complex probability sampling" (ibid).

Systematic sampling follows the pattern of generating and drawing "nth" element in study design from the population through random selection (Sekaran and Bougie, 2012). However, systematic biases can incur in this technique as the selection follows randomly generated nth number and thus it is likely possible that some events may miss out in due course (ibid). Interestingly, Rose (2016) states that for the purpose of statistical analysis, it is the straightforward and simplistic probability sampling technique for determining sample size. Hence, in comparison to random sampling it is significantly simpler. However, number of authors confirmed that the generating procedure of "Nth" number and setting up of the intervals between two nodes are resultant of personal choice (Bajpai, 2010; Black, 2010; Sekaran and Bougie, 2012). Interestingly, Bajpai (2010) and Black (2010) argued that for using systematic sampling technique, it is essential to know the sample framework but knowing the entire list of the population is not mandatory in all types of researches. Furthermore, there is also a likely possibility of subjective limitation associated with this method as there may be under or over representation incurring when following specific list of population (Black, 2004; Ross, 2016). For instance, considering one organisation having more than 5000 employee whereas another may only have less than 50 employees hence "Nth" frequency can create a situation of over representation for large organisations while under representation for small organisations.

Extensive sampling is also a non-probability sampling that follows the pattern of census (Singh andBajbai, 2010). Interestingly, it intakes only specific types of subjects that researcher is interested in and exclude those not relevant to the type of the study (ibid). Moreover, Black (2010) argued that it is highly effective but consume too much time because researcher is only

focusing on the key aspects thus requires to include only those subjects that has knowledge about the variables of interest.

# **Pilot Study**

Any error in the instrument can cause the research in more than one way because research process is delicate, time consuming, and costly process thus pilot study helps in improving the quality of questions. Hence, through pilot testing the researcher ensured there is no double barrel or leading questions that confuse the respondents. Interestingly, Teijlingen van *et al.*, (2001) argued that often funding bodies invest large investment in researches therefore credibility of instruments is essential determinant and pilot testing helps in convincing funding bodies. Thus, the accuracy and feasibility of instrument improve by following specific required protocols. researcher learns about the way to develop realistic attempt in collecting the data from the sample size as it also helps in determining appropriate sample size (Teijlingen van *et al.*, 2001).

attitudinal strategies development becomes significantly appropriate and likely due to pilot studies (Teijlingen van *et al.*, 2001). For instance, researcher begins with either quantitative or qualitative methods and runs a trial version (pilot study) prior to the actual research on a larger scale. Through pilot testing, researcher may learn that selected method alone cannot bring effective results and there might be a need for inclusion of another method(s). Hence, research develops alternative approach at times due to running a trial version (Tashakkori and Teddlie, 1998). Hence, it is very significant attribute in selection and settling on the specific actual or/and additional instruments. Nevertheless, Teijlingen van *et al.*, (2001) argued that researchers sometimes use pilot testing as a meant to gather data and those gathered data facilitate researcher in structuring and designing the flow of the questions in an appropriate manner.

### **Ethical Consideration**

There shall be no compromise on the ethical grounds in the research (Sekaran and Bougie 2012). On the other hand, Barnes (1984) argued that in the social enquiries often a situation arises where ethical compromise is unavoidable. Nevertheless, Resnik (2015) stated that perspective, procedure, or methods undertaken for operating and analyzing complex issues and problems specifically involving humans is regarded as ethics. For researchers the ethical consideration is one of the important and mandatory aspects in the research commencement

(Sekaran and Bougie, 2012). At any stage, there is a possibility of ethical dilemma arising due to tricky situations (ibid). Interestingly, professional, ethical, emotional, and physical dangers might arise in research (Lee-Treweek and Linkogle, 2000). Furthermore, danger and risk mitigation in the designing and planning stage of research enables researcher in developing risk analysis strategy, which effectively reduces potential risk (Lee, 1995; Craig *et al.*, 2001). Moreover, Appell (1978) argued that communicating ethical principles help researcher in addressing ethical issues. On the other hand, Reynolds (1975) suggests researcher shall maintain confidence in research to keep a balance between impartial objectives and valuing respondents' views whereas Diener and Crandall (1978) stated that reviewing and exposing findings and methods to the participants is effective obligatory measure taken by researchers as part of ethical consideration.

Various types of potential risks such as physical, psychological, and emotional risk may arise to researcher, respondents, and research itself. Hence, researcher shall follow and adopt appropriate guidelines and procedures in order to avoid and mitigate adverse effects or serious mishap on different stages of research through carefully planned ethical consideration (Guillemin and Gillan, 2004). Additionally, researchers in the research investigation process do encounter situations of ethical concerns and dilemma (ibid). In other words, researchers in social science researcher do come across situation having ethical dilemma. Furthermore, during qualitative or/and quantitative researches researcher comes directly or indirectly in contact with humans thus following adequate ethical procedures and guidelines are significant for researcher (Guillemin and Gillan, 2004). one of the prime principles of ethical consideration is maintaining confidentiality regarding information shared by the participants (ibid). Nevertheless, Guillemin and Gillan (2004) argued that any information must be disclosed to concern authorities if it may lead to self-injury or injury to anyone else.

# Reliability

Therefore, the logical conclusion is resulting from the findings, which is reliable and repeatable in given setting. Moreover, Eisner (1991) argued that in both qualitative and quantitative researches require adequate approach for ensuring situational analysis, research instruments, and data analysis process are correct so that any type of confusion could be avoided. The researcher must maintain 'principles of reliability' throughout the process by stating clearly the research purpose and develop measures that similar findings will incur when measured over the time (Stenbacka, 2001). One could argue that reliability leads to generating and developing

comprehensive understanding. Nevertheless, the concept of reliability is often misleading and confusing in the qualitative researches hence researchers are required to ensure adequate means develop for keeping reliability in the research process (ibid). Furthermore, Patton (2002) argued that quality of the study is likely to improve with the higher level of validity and reliability.

Interestingly, Healy and Perry (2000) proposed argument, "the research quality retain and maintain by researchers through following credibility, neutrality, and conformability in the quantitative paradigm". However, Lincoln and Guba (1985) argued that for maintaining the quality researchers use reliability by developing consistency, transferability, and dependability in the process. Interestingly, consistency and dependability considered as factors of reliability by some of the authors for maintaining the quality of the research (Lincoln and Guba, 1985; Clont, 1992; Seale, 1999; Golfishani, 2003).

#### Validity

Additionally, the set of variables and the arrangement of questions were significant in exploring the research variables in depth rather than width. Moreover, for internal validity researcher used content and criterion validity. The precision and confidence in the research instrument increased through criterion validity as it was ensured that the instruments are accurate in measuring the research phenomenon and the actual concepts. Additionally, the alignment between segments of the questions in a questionnaire and intended respondents so that construct validity increases because the haphazard questions, double barrel questions, or leading questions create bias responses. Hence, researcher ensured there is no such question in the instrument. This reflects the construct validity. Moreover, the use of a literature for developing conceptual and theoretical framework and asking the questions to explore the knowledge of the participants are part of content validity in this study. automatic self-updating questionnaire and use of a direct mode (self-reporting) approach in the interviews are reflecting the qualitative validity in this study.

Nevertheless, if not to larger extent but to some limited extent there is a likely possibility of biasness in the research process hence it is vital for the researcher to that that biasness is reduced to maximum level or ideally avoided. According to Mizayaki and Taylor (2008), the chances of biasness in responses arise when researcher and participants interact. Additionally, Robert and Traynor (2006) stated that at times when a researcher offers any monetary rewards or incentives to the respondents for participation in the research process there is a possibility

that biased responses will emerge because in order to please researcher, participants alter their opinion under the impression that they are returning the favour against received incentives. Nevertheless, sometimes it happens unintentionally but it is very serious threat to the actual findings and the research process. On the other hand, McDonald (2000) stated that some researches require prior training of the participants before actual participation in the research. As a result, the researcher comes in direct contact with the respondents even before the actual research commencement process. However, this could also increase the response biasness. Thus, validity is vital for the research purpose.