European Online Journal of Natural and Social Sciences 2018; Vol. 7, No.3(s) Special Issue on Contemporary Research in Social Sciences ISSN 1805-3602

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Impact of Test Anxiety on Paper Management and Students' Performance

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Abstract

The current study was conducted to explore the impact of test anxiety on paper management and performance of students. The main objective of the study was to investigate the test anxiety impact on paper management indicators with respect to their performance. All the students enrolled in the department of Education and directorate of distance learning at GC University Faisalabad were the population of the study. Three hundred and fifty six students participated in this study. Data were collected with the help of self-developed instrument, Paper Management and Anxiety Scale [PMAS] with Alpha reliability 0.836. Mean, Standard deviation, t- test, and ANOVA were applied to analyze the data on five indicators (time management, physical environment, content clarity, content mastery, and anxiety) of paper management and anxiety. Results revealed that students were less satisfied with the indicators of physical environment and content mastery. Female students were less satisfied with the paper management techniques, so, they performed poor with higher anxiety when compared with male students. Further studies may be conducted to train the students regarding paper management and anxiety reduction techniques.

Keywords: test anxiety, paper management, content clarity, content mastery, time management

Introduction

The outcomes of educational objectives are the result of attentive learning in the classroom, appropriate teaching strategies, and actual reflections in the final assessment in exams. Sometimes all the academic activities went in vain due to poor management of paper. Students face anxiety and ultimately fail in exams or they show poor performance. Test or exam anxiety influences students' grade level. It is a challenging task to help students' manage and reduce anxiety. It is not an individual task rather a team effort by teachers, parents, and peers (Harris & Coy, 2003). However, teaching styles of teachers have no link with test anxiety and students' evaluation about test (Crişan, Albulescu, & Copaci, 2014). There are two types of test anxiety. The first is somatic anxiety which concerned with one's feelings. The second is cognitive anxiety which is concerned with one's thinking (Nolting, 2000).

Review of Related Literature

Effective Management of Paper

Poor paper management is a common problem that many university students face which in turn creates exam anxiety (Study Skills Resource, n.d.). Often the students did well in the exam but on result day all their expectations went disappointed. Basically they are unable to attempt their paper effectively. The students should prepare their test well, pin point major concepts but never skip minor topics too. They must start their paper from strong points to avoid negative perception by the examiner or paper checker. The students should solve all questions and do not left an answer unattempt with the hope to attempt it afterwards but it never comes. Losing a single question is like surrendering certain marks. Keep your paper clean and avoid unnecessary overwriting. Make your paper easy and legible for paper checker (www.eduinn.pk).

Test or exam anxiety is a state of distress or uneasiness that examinee face during, before, or after exams which leads to poor performance. The examinee with exam anxiety feel low concentration, distractibility and mental disorders (Study Skills Resource, n.d.). The factor that affect exam performance are reported as lack of self-confidence, limited time, intelligence, and low writing skills (Amiryousefi & Tavakoli, 2011). Knowledge development is linked with students' anxiety, time perception, and impetuosity (Bagana & Raciu, 2012). Many studies highlighted the negative relationship between academic performance of students and test anxiety for both genders (Crisan & Copaci, 2015; Stomff, 2014).

Gender and Paper Management

Exam anxiety is a natural phenomenon. It may affect students' career positively as well as negatively. It depends upon the situation where students are attempting the papers. All students show test anxiety during exams but female students had higher level of exam anxiety than that of males (Gürses, Kaya, Doğar, Günes, & Yolcu, 2010). Translation test anxiety has significant relationship between motivation of students, anxiety level and attitudes. Gender wise comparison revealed that female students indicated greater level of translation test anxiety than that of male students (Gorjian, Mahmoudi, & Mir, 2012). The female students were more concerned than that of males with respect to English speaking skills in classroom (Öztürk & Gürbüz, 2013). Female students showed more anxiety and worry than male students (Hosseini & Khazali, 2013). There is no significant difference regarding the reading test performance and anxiety (Javanbakht & Hadian, 2014). A study conducted by Karadeniz (2011) revealed that no significant difference was found between test anxiety and students' achievement on the basis of gender in mobile based tests. Male students with low level test anxiety performed better. The students experience more anxiety in learning English (Latif, 2015). The writing anxiety is concerned with written tests, linguistic and cognitive factors (Qashoa, 2014).

Managing Test Anxiety

Exam is the source of stress among learners. Most of the students' performance depends on it and they require to report, retain, and interpret the entire course in three hours. Stress has negative effect on students' performance. Prepared test has optimistic feeling that unprepared. There are many coping strategies to reduce anxiety. Well eating, proper rest and physical comfort can reduce stress related to exams. Sleep improves the memory process. Spending all night cramming with small rest may lose your effort (Smith, 2001). Arrive at exam hall well in time and start the paper with positive ritual (Managing Exam Anxiety, 2014). Technology can increase the learning ability of learners and hence reduce the anxiety (Hong et al., 2012). The different management techniques may be used to reduced anxiety. They are managed by developing study habits and memorizing the content (Wright, n.d.). The training of mind consciousness education is an effective technique to reduce exam anxiety (Sohrabi, Mohammadi, & Delavar, 2013). Training is one of them that decreases anxiety among test takes (Ejei, rezaei, & Lavasani, 2011). Test anxiety can be reduced by applying goal orientation by the teacher in the classroom as it positively related with students' goal orientation (Dewi & Mangunsong, 2012). The students in lower grades show more anxiety than that of higher grades as they are not familiar with the exams and academic environment (DordiNejad et al., 2011).

Test anxiety may be attributed to subjects. Openness to experience was negatively correlated with fear of statistics teachers and fear of asking for help. Extraversion was positively correlated with interpretation anxiety, test and class anxiety, and fear of asking for help (Hong, Chew, & Dillon, 2014). The performance and academic motivation of students directly affects statistics anxiety (Lavasani, Weisani, & Ejei, 2011). The attainment goals affect statistics anxiety

through educational motivation (Lavasani, Weisani, & Shariati, 2014). The social interaction with peers also reduces the anxiety level among students and improves the learning motivation when they discuss about exams (Magelinskaitė, Kepalaitė, & Legkauskas, 2014). Test anxiety is the outcome of interconnected views and experiences. Unproductive learning methods and interruption can cause anxiety and a depressed self-esteem (Mashayekh & Hashemi, 2011). Different sources are used to study exam anxiety like class demonstration, math tests, language problems and social interaction (Vitasari & Wahab, 2010). There is a negative relationship between anxiety and Math test (Aarnos, 2012).

There are many feelings and senses of test anxiety among students. Test anxiety may create physical problems in students like headaches, body temperature, sweating, rapid heart beat. The emotional problems are feelings of fear, anger, disappointment, depression and helplessness. The behavioural problems are abuse, pacing and avoidance. The cognitive problems are going black, self talking and low concentration (Miller, n.d.). The anxiety is not a single variable that affect exam score, so with out rely on final exams, on going evaluations may be more appropriate assessments (Mohamadi, Alishahi, & Soleimani, 2014). The anger management training may reduce the level of anxiety and enable social adjustment among students related to exams (Mohammadi, Kahnamouei, Allahvirdiyan, & Habibzadeh, 2010). Same findings were explored by Niusha, Farghadani, and Safari (2012) that confidence building training may improve morale of students by reducing anxiety and they feel stable with the passage of time.

Paper Management and Students' Performance

A study conducted by Mohammadyari (2012) revealed that test anxiety and academic achievement had negative correlation among female students and self-efficacy and academic achievement had positive correlation among male students. So, females have anxiety characteristics and males have belief characteristics are the indicators of success among gender. The perceptions of male and female students are different in terms of test anxiety. Female students show higher anxiety than males but did not show lower performance in multiple choice questions and open ended questions than males (Núñez-Peña, Suárez-Pellicioni, & Bono, 2016). The learners with more test anxiety may lose their academic performance and repeat a class. If the problems prevails, a professional must be consulted for such reasons (Fletcher and Associates, 2007).

Objectives

The objectives of the study were as under:

- 1. To explore the performance of male and female students during paper management.
- 2. To investigate the differences of anxiety between male and female students with respect to paper management indicators.
- 3. To identify the difference in the paper management indicators with respect to class of students.

Hypotheses

Following Hypotheses were designed to achieve the desired objectives:

Ho1: There is no significant difference in the performance and paper management anxiety indicators with respect to male and female students.

Ho2: There is no significant difference in the performance and paper management anxiety indicators with respect to students' class level.

Methodology

The study was descriptive in nature. Survey method was used for data collection.

Population and Sample

The population consisted of all the students enrolled in the year 2015 in department of education and directorate of distance learning education at GC University Faisalabad. Three hundred and fifty six students participated randomly from four classes, B. ed., M. ed., MPhil education first semester and second semester.

Data Collection

Data were collected with the help of a self-constructed instrument Paper Management and Anxiety Scale [PMAS]. It had 50 items with five indicators, namely time management, physical environment, content clarity, content mastery, and anxiety. The students were requested to fill up the questionnaires after completing the paper in examination hall. Verbal instructions were delivered to students. Data were analyzed with the help of t-test and ANOVA.

Data Analysis

Ho1: There is no significant difference in the performance and paper management anxiety indicators with respect to male and female students.

Table 1 Performance of Male and Female Students wrt Paper Management Indicators

	Gender	N	Mean	SD	t-value	р
Time	Male	165	3.66	.966	2.358	.019*
Management	Female	191	3.43	.855		
Anxiety	Male	165	3.45	.732	2.084	.038*
	Female	191	3.90	.767		
Content Clarity	Male	165	3.23	.697	320	.749
	Female	191	3.25	.675		
Content	Male	165	3.34	.596	2.500	.013*
Mastery	Female	191	3.18	.630		
Physical Env	Male	165	3.33	.604	2.821	.005**
	Female	191	3.15	.638		
Performance	Male	165	69.61	7.439	2.961	.003**
	Female	191	66.91	9.457		

In Table 1, there revealed a significant difference between male and female students. Thus, the null hypothesis that, "there is no significant difference in the performance and paper management anxiety indicators with respect to male and female students" was rejected for time management, anxiety, content mastery, physical environment and performance of students. It was clear that male students had a vital difference with respect to those indicators when compared with female students. Male students had performed better than female students. They were clear in mastering the content and perceive the physical environment better than female students. The anxiety level of female students was higher than that of male students. However, the aspect of content clarity did not show any significant difference with respect to gender.

Ho2: There is no significant difference in the performance and paper management anxiety indicators with respect to students' class level.

Table 2. Comparison of Classes wrt Paper Management Indicators

		Sum of	df	Mean	F	Sig.
		Squares		Square		
Time	Between	76.94	3	25.64	37.706	.000**
Management	Groups					
	Within	239.42	352	.68		
	Groups					
	Total	316.36	355			
Anxiety	Between	50.65	3	4.03	7.475	.000**
	Groups					
	Within	175.88	352	.50		
	Groups					
	Total	226.54	355			
Content Clarity	Between	23.41	3	7.80	19.195	.000**
	Groups					
	Within	143.11	352	.40		
	Groups					
	Total	166.53	355			
Content	Between	17.14	3	5.71	16.907	.000**
Mastery	Groups					
	Within	119.00	352	.33		
	Groups					
	Total	136.15	355			
Physical Env	Between	15.06	3	5.02	14.086	.000**
	Groups					
	Within	125.45	352	.35		
	Groups					
	Total	140.51	355			
Performance	Between	46.63	3	15.54	.205	.893
	Groups					
	Within	26670.23	352	75.76		
	Groups					
	Total	26716.87	355			

^{**}p<0.01

ANOVA was used to explore the impact of class level on the performance and paper management indicators. The table 2 found that all the indicators had strong significant impact on paper management. However, performance indicator did not show any significant difference with respect to class level.

Results and Discussion

A significant difference was found between male and female students. It was clear that male students had a vital difference with respect to those indicators when compared with female students. Male students performed better than female students. They were clear in mastering the content and perceive the physical environment better than female students. They handle the emergency

environment better than that of female students. The study favours the previous researches (Latif, 2015). The anxiety level of female students was higher than that of male students. The reason may be that female students are more shy and unable to handle their shyness. The current study favour the findings of previous studies (Gorjian, et al., 2012; Gürses, et al., 2010; Hosseini & Khazali, 2013; Öztürk & Gürbüz, 2013). However, the aspect of content clarity did not show any significant difference with respect to gender.

All the indicators had strong significant impact on paper management and test anxiety. However, performance indicator did not show any significant difference with respect to class level of students.

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