## **EXST7015**

## **Daily Design 19** Carefully read the description of the experiment below. Be prepared to answer the questions that follow the design description as a class guiz.

In a Likert scale the subjects are asked to express agreement with a question on a scale of 1 to 5 or 1 to 7. The answers for a 5 point Likert scale would be: 1. Strongly disagree 2. Disagree 3. Neither agree nor disagree 4. Agree 5. Strongly agree.

The study investigated the relationship between academic procrastination and academic performance of university students in a Nigerian university. Subjects consisted of 185 final-year education students (Male = 98, Female = 87) of Obafemi Awolowo University, Ile-Ife, Nigeria. One research instrument, the Procrastination Scale (PS), developed and validated by Lay (1986), was used to collect data for the study. Subjects for the study were selected from a class of students offering a compulsory education course in the College of Education. The students, who were asked to volunteer their class time to complete the research instrument, were not necessarily randomly selected.

The Procrastination Scale (PS, Lav 1986) is a 20-item self-report instrument of the Likert type consisting of items intended to find out the extent to which subjects procrastinate on issues that cover various aspects of life. The original author of the instrument had found it to possess high internal consistency and convincing construct validity. A high score on the scale indicates a high level of procrastination while a low score is indicative of a low level of procrastination. The scores were used to categorize students into one of 3 levels (high, moderate or low procrastinators). Data on subjects' academic performance using their Cumulative Grade Point Average (CCPA) were collected from their respective departments and used as the variable of interest to evaluate academic performance.

Source of Variance	Sum of Squares	df	Mean Squa	are	F	Р
Between Groups	29.14	2	14	.57 3	36.06	6.4263E-14
Within Groups	73.54	182	0	.40		
Total	102.68	184	14	.97		
ble 3: Multiple Compar	isons of CGPA o	f Students v	with Differ	ent Lev	<u>el</u> s of	Procrastinat
ble 3: Multiple Compar Levels of Procrastination		<u>f Students v</u> CGPA mean	1	ent Lev Letter		' Procrastinati
<b>A A</b>			SD			' Procrastinat
Levels of Procrastination	N 48	CGPA mean	SD 0.47	Letter		Procrastinat

Table 2: Infl	uence of Level	of Academic	Procrastination of	n Academic Performance
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Answer choices:	(A) subject (= student)	(B) CGPA	(C) procrastination level
	(D) departments	(E) gender	(F) Likert scale

Name	Quiz Numl	uiz Number		Date		/	/ 2012_	
Circle the appropriate letter for each question.								
1) What is the experimental unit for this experiment?	А	В	С	D	Е	F		
2) What is the sampling unit for this experiment?	А	В	С	D	Е	F		
3) What is the dependent variable for this experiment?	А	В	С	D	Е	F		
4) What is the treatment variable for this experiment?	А	В	С	D	Е	F		
5) If the design is RBD, what are the blocks?	А	В	С	D	Е	F	NA	
6) Does it seem more likely that the treatments are fixed	or random?	(A)	fixed	(B)	rando	m		
7) What is the treatment arrangement for this experiment	? (A) sin	ngle fac	tor	(B) fact	orial	(C) n	ested	
8) What is the experimental design? (A) CRD (B) R	RBD (C) L	SD (	D) Split	t-plot	(E) Re	epeated	Measures	
9) The treatment degrees of freedom are								
10) The degrees of freedom for the error used for testing	treatments are	e						