

SPECIAL EXAMINATIONS FIRST YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF EDUCATION (ECDE) SECOND SEMESTER, 2021/2022 (FEBRUARY - JUNE, 2022)

EPSC 123: STATISTICAL AND RESEARCH METHODS IN EDUCATION

STREAM: Y1 S1 TIME: 2 HOURS

DAY: FRIDAY, 8:00 - 10:00 A.M. DATE: 22/07/2022

INSTRUCTIONS:

1. Do not write anything on this question paper.

2. Answer Question ONE [Compulsory] and any other THREE Questions.

QUESTION ONE

- a) Explain five differences between descriptive statistics and inferential statistics (10 marks)
- b) Using examples, differentiate between Quantitative data and Qualitative data (9 marks)
- c) Using specific examples, explain any three methods of collecting data (6 marks)

QUESTION TWO

a) Use the following data; 11, 39, 12, 29, 43,13, 44, 35, 14, 40, 31,15, 16, 14, 39, 44, 17, 18, 14, 52, 19, 10

Find:

- i. The mean
- ii. The median
- iii. The mode
- iv. The upper quartile

vi.	The inter-quartile range	(6 marks)
b) U	sing the following data set; 39, 29, 43, 52, 39, 44, 40, 31, 44,	35
Calc	ulate;	
i.	The variance	
ii.	The standard deviation for the following set of data	(9 marks)
QUE	STION THREE	
a) U	sing examples, explain the following levels of measurement;	
i.	Nominal Scale	
ii.	Ordinal Scale	
iii.	Interval Scale	(9 marks)
b) E:	xplain how scale discussed can be applied in a classroom situ	ation
		(6 marks)
QUE	STION FOUR	
a) U	sing examples, explain the following:	
i.	Construct Validity	
ii.	Content Validity	
iii.	Face Validity	(6 marks)
b) D:	ifferentiate between null and alternative Hypothesis	(6 marks)
c) H	lighlight the function of a hypothesis in research	(3 marks)
QUE	STION FIVE	
Expl	ain how the following concepts are used in research;	
i.	Variable	
ii.	Population	
iii.	Sample	
iv.	Statistic	
v.	Parameter	(15 marks)

The lower quartile

v.