

AGEC 0104: INTRODUCTION TO STATISTICS

STREAM: Y1 S1

TIME: 2 HOURS

DAY: TUESDAY, 9:00 A.M - 11:00 A.M

DATE: 13/12/2022

INSTRUCTIONS:

1. Do not write anything on this question paper.

2. Answer Question ONE (Compulsory) and any other TWO Questions.

QUESTION ONE

(a). with illustration explain the following terms as used in statistics

(i) Statistics	(2 marks)
(ii) Observation	(2 marks)
(iii) Data	(2 marks)
(iv) Variance	(2 marks)
(b). Discuss types of variables as used in statistics	(8 marks)
(c). In an examination the scores of 10 students were as follows;	
60, 45, 75, 42, 70, 65, 69, 64, 50, 80	

Find;

(i). F	lange.	(3 marks)
(ii)	Variance.	(4 marks)
(iii)	Standard deviation.	(3 marks)
(d). Di	scuss the two sources of data.	(4 marks)
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QUESTION TWO

(a) The following data shows the height of students in Kisii University;

13, 35, 46, 87, 56, 78, 48, 45, 24, 35, 44, 84, 12, 15, 86, 56

Find;

(i) Quartile	(4 marks)
(ii) Quartile deviation	(4 marks)
(iii) Coefficient of quartile range	(4 marks)
(iv) Mean	(3 marks)
(b) Discuss the methods of data collection	(5 marks)

QUESTION THREE

The IQ of students in Kisii University were recorded in the table below;

IÇ)	No. of students
1-20		6
21-4	0	18
41-6	0	32
61-8	0	48
81-1	00	27
101-	120	13
121-	140	2
Calc	ulate;	
(i)	Mean	
(ii)	Median	
(iii)	Mode	
(iv)	Variance	
(v)	Standard dev	viation

QUESTION FOUR

With examples, define sample and discuss in detail the types of sampling used in statistics

(20 marks)