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(Knowledge for development)
KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2020/2021 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER

MAIN EXAMINATION

REGULAR PROGRAMME

FOR THE DEGREE OF BACHELOR OF EDUCATION ARTS

COURSE CODE: GEO 318

**COURSE TITLE: QUANTITATIVE METHODS IN
GEOGRAPHY**

DATE: OCTOBER 7, 2021

TIME: 9 – 11 AM

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

- 1. Answer Question ONE (Q1) Compulsory**
- 2. Answer any other TWO (2) Questions**
- 3. Use illustration where appropriate**

This paper consists of 2 printed pages. Please Turn Over.

1. .a. Highlight any two features of a normal distribution curve (2 marks)
- .b. Distinguish between the following terms as applied in statistics (4 marks)
- A variable and a parameter (4 marks)
 - Population and sample (4 marks)
 - Type I and Type II errors (4 marks)
- .c. Highlight any four characteristics of a good hypothesis. (4 marks)
- .d. Describe three types of peaks observed in a distribution (12 marks)

2. Discuss the different scales of measurements. (20 marks)

3. Discuss any four non-probability sampling techniques used in geographical research. (20 marks)

4. .a. Explain one advantage and two disadvantages of using the mean as a measure of central tendency. (6 marks)

.b. The data below was collected by a geography fieldwork class.

Class	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80	81 - 90	91 - 100
Frequency (f)	2	17	24	44	5	4	3	3

Calculate:

- Mean using Assumed Mean (4marks)
- Mode (5marks)
- Standard Deviation (5marks)

5. .a. Highlight any two uses of regression analysis techniques. (2 marks)

.b. The data below was collected on pupils by a nutritionist:

S/N	1	2	3	4	5	6	7	8	9	10
Height (x)	52	62	58	48	55	60	56	53	50	62
Weight (y)	40	55	53	40	44	50	51	45	44	55

- Plot a scatter diagram for the and explain the nature of the scatter (8 marks)
- Use Carl Pearson's method to calculate the coefficient of correlation (r) and explain you results. (10 marks)