NGETTA CAMPUS

FACULTY OF AGRICULTURE

BACHELOR OF ARTS WITH EDUCATION

COURSE CODE: STA1101. INTRODUCTION TO STATISTICS FOR BUSINESS AND ECONOMICS

FINAL ASSESSMENT

ACADEMIC YEAR 2022/2023 SEMESTER ONE

BAED I

DATE: 5TH/DEC/2023

TIME ALLOWED:3 HOURS (9:00AM-12:00PM)

INSTRUCTIONS:

- *Attempt any four questions*
- *All questions carry equal marks*
- *Start every question on a new page*
- *Do not write anything on the question paper*

Question one

a) With examples explain the following terms used in statistics

i) Mean (3 marks)

ii) Mode (3 marks)

iii) Median (3 marks)

b) Discuss the advantages and disadvantages of mean and median as a measure of central

tendency (16 marks)

Question Two

a) Explain various methods used for data collection in statistics (10 marks)

b) Discuss the various sampling techniques used in statistics (15 marks)

Question Three

a) With relevant examples explain the economic importance of statistics

b) Discuss the relevance of statistics in real life

Question Four

a) The table below shows number of orders received weekly by a business man dealing in general merchandise in Lira City. Study it and answer the questions that follows

Number of Orders received	5- 9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49
Numbers of Weeks	1	7	11	10	7	2	0	1	1

Find

i) Mean (5 marks)

ii) Mode (5 marks)

iii) Median (5 marks)

b) Determine the mean, mode and median for the data below:

2, 2 , 1, 1, 2, 4, 6, 9 , 5 , 3. , 1 , 2, 4 , 5, 6 , 7 , 3 , 2 , 4 , 9 , 8 , 6, 8, 9

Question Five

a) Explain the following terms used in statistics

i) Correlation

ii) Positive correlation

iii) Negative correlation

b) The table below shows mark scored in Economics (x) and Geography (y)

Economics (x)	15	19	30	12	58	10	23	17
Geography	13	25	23	26	48	15	28	10

Calculate the product moment correlation coefficient for the above data and comment on your result.

Question Six

a) Explain the methods used to find the regression line equation (10 marks)

b) Determine the equation of regression line y on x for that below (15 marks)

x	57	62	60	57	65	60	58	62	56
y	71	70	66	70	69	67	69	63	70

Find the value of x when

i) y = 65

ii) y =56

Question Seven

a) Explain the meaning of following terms

i) Coefficient of determination (3 marks)

ii) Regression (3 marks)

iii) Explained variation (3 marks)

iv) Unexplained variation (3 marks)

b) Calculate the spearman's rank correlation coefficient for the data below and comment on your findings

x	30	31	32	30	46	30	19	35	40	46	57	30
y	30	14	30	23	32	26	20	21	23	30	35	26

Question Eight

a) Examine the importance of economics in real life (10 marks)

b) Discuss the sources of primary data (15 marks)

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