



UNIVERSITY OF KABIANGA

UNIVERSITY EXAMINATIONS 2016/2017 ACADEMIC YEAR SECOND YEAR FIRST SEMESTER EXAMINATION

FOR THE DEGREE OF BACHELOR OF ARTS (ECONOMICS)

COURSE CODE: ECO 212

COURSE TITLE: ECONOMICS STATISTICS I

DATE: 5TH DECEMBER, 2016

TIME: 2.00 P.M. – 5.00 P.M.

INSTRUCTIONS TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF (3) PRINTED PAGES

PLEASE TURN OVER

SECOND YEAR FIRST SEMESTER BACHELOR OF BUSINESS MANAGEMENT

ECO 212: ECONOMICS STATISTICS 1

UNIVERSITY EXAMINATION 2016/17 ACADEMIC YEAR

INSTRUCTIONS: Answer Question One and Any Other Three .Answer Each Question on a New Page.

QUESTION ONE (25MKS)

- a) Define statistics (1mk)
- b) Distinguish between primary and secondary data (2mks)
- c) Explain what is meant by the following terms as used in sampling (6mks)
- i. Simple Random Sampling
 - ii. Systematic Sampling
 - iii. Stratified Sampling

d) Tabulate the following information:

Out of the total number of 2500 women who were interviewed for employment in a factory, 1500 were married and the rest unmarried. Amongst the married women , 900 were experienced and the rest inexperienced, while from the unmarried 300 were experienced. (5mks)

e) From the following information, calculate the mean.

Marks	No.of students
0 - 20	5
20 - 40	7
40 - 60	13
60 - 80	8
80 - 100	7

(4mks)

f) The following figures were taken from a survey on a certain business firm

No. of Establishments	Goods Sold	Net Output (000,s)
23		104
25		450
26		850
20		1400
15		2200
7		3100

Using the above information, draw a Lorenze Curve and interpret (7mks)

Regression

QUESTION TWO (15mks)

a) Outline advantages and disadvantages of median (4mks)

b) Calculate the median from the following distribution.

Wages (sh)	No. of employees
0 - 30	20
30 - 60	35
60 - 90	30
90 - 120	15

(6mks)

c) Calculate the arithmetic mean from the following data using an assumed mean of 25 by short cut method

Values : 5 10 15 20 25 30 35 40 45 50

Frequency : 20 43 75 67 70 45 40 10 8 6

(5mks)

QUESTION THREE (15mks)

a) Outline four methods of collecting primary data

(4mks)

b) Calculate the Regression Equation of X on Y and Y on X from the following data

X	1	2	3	4	5
Y	2	5	3	8	7

(11mks)

QUESTION FOUR (15mks)

Compute by suitable method the index number of quantity from the data given below

Commodity	2004		2007	
	Price	Value	Price	Value
A	8	80	10	110
B	10	90	12	108
C	16	256	20	340

QUESTION FIVE (15mks)

a) State four important methods of studying correlation.

(4marks)

b) Calculate the Karl Pearson's coefficient of correlation between X and Y given

X	23	27	28	28	28	30	30	33	35	38
Y	18	20	22	27	21	29	27	29	28	29

(11marks)