

MASINDE MULIRO UNIVERSITYOF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER MAIN EXAMINATION FOR THE DEGREE OF

BACHELOR OF SCIENCE IN AGRICULTURAL ECONOMICS AND RESOURCE MANAGEMENT AND BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT AND MARKETING

COURSE CODE: AEC 103

COURSE TITLE: ECONOMIC STATISTICS

DATE: 27/04/2022

TIME: 1-3 pm

INSTRUCTION TO CANDIDATES

Answer question one and any other two in section B

Time: 2hrs

MMUST observes ZERO tolerance to examination cheating

This paper consists of 3 printed pages. Please turn over

SECTION B: Answer ANY TWO questions

Question two

- i. Sampling procedure is widely used among researchers compared to census. Clearly state the advantages of using sampling procedure. (5 marks)
- ii. The following data relates to income levels and expenses of food in thousands of shillings.

Income	35	49	21	39	15	28	25
Food expenditure	9	15	7	11	5	8	9

Calculate the pearson correlation for the relationship between income and food expenditure and interpret your results (10marks)

Question three

i. Explain any two sources of data

(4 marks)

ii. Highlight any five problems a researcher is likely to face in data collection

(5 marks)

iii. Discuss three methods of collecting a sample

(6 marks)

Question four

- i. Using relevant examples briefly discuss steps involved in statistical inquiry (7 marks)
- ii. The table below gives the prices of a set of products sold in a particular supermarket.

Year		2008	2009		
Items	Price (Ksh.)	Quantity	Price (Ksh.)	Quantity	
A	72	100	80	95	
В	160	12	180	10	
С	90	16	82	18	
D	10	1100	12	1200	

Calculate;

a) Laspeyer's price index

(4 Marks)

b) Paasche's price index

(4 Marks)