University of choice

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)
SCHOOL OF AGRICULTURE, VETERINARY SCIENCES AND TECHNOLOGY (SAVET)

MAIN CAMPUS

2022/2023MAIN UNIVERSITY EXAMINATIONS

FOR THE
BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT AND MARKETINGAND BACHELOR OF SCIENCE IN AGRICULTURAL ECONOMICS AND RESOURCE MANAGEMENT FIRST YEAR SECOND SEMESTER.

COURSE CODE: AEC 123

COURSE TITLE: ECONOMIC STATISTICS

DATE: 18TH APRIL 2023   **TIME: 8-10 AM**

INSTRUCTIONS TO CANDIDATES

Answer ALL Questions.

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over

ANSWER ALL QUESTIONS

Q1. Differentiate between discrete and continuous random variable   (4mks)

Q2. Explain the following types of scales(4mks)
  i.   Ordinal scale
  ii.   Ratio scale

Q3.Explain three types of measures of central tendency (6mks)

Q4.Using the coding method calculate the meaning of the following ungrouped data 2, 4,6,7,8   (4mks)

Q5. Explain four reasons why statistics is important in economics   (6mks)

Q6. The following are test scores obtained in a descriptive statistics test. Calculate the skewness and comment on your result (8mks)

Test scores	10	20	25	30	35
Frequency	2	3	1	3	1

Q7. Explain the use of Q-Q plot in statistics(2mks)

Q8.the table below shows the age distribution of employees in Mumias factory.

Age (in yrs)	No of employees
20-24	2
25-29	5
30-34	12
35-39	17
40-44	14
45-49	6
50-54	3
55-59	1

  i.   Calculate the median age of employees (6mks)
  ii.   Modal age of the workers (6mks)

Q9.Explain **four** advantages of primary data over secondary data(4mks)

Q10.Distinguish between technique and tool for data collection using examples as used in statistics **(4mks)**

Q11.Calculate the mean deviation of the distribution below**(8mks)**

Class interval	Frequency
1-3	5
4-6	10
7-9	15
10-12	10
13-15	5

Q12. Compute the median for the following set of data
4, 7,2, 9, 6,10 **(4mks)**

Q12. State the methods commonly used in data collection. **(4mks)**