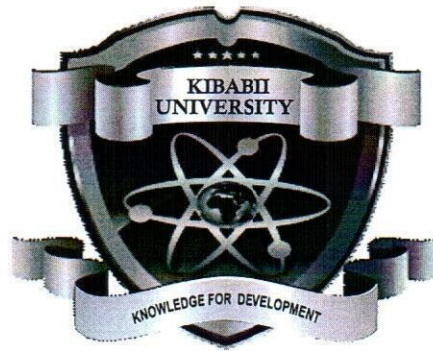


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(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR

FIRST YEAR 2ND SEMESTER
MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE
ECONOMICS AND RESOURCE MANAGEMENT

COURSE CODE: AEC 125
COURSE TITLE: STATISTICS FOR ECONOMISTS

DATE: 21ST APRIL 2023 **TIME:** 9 – 11 AM

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO Questions.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

QUESTION ONE

30 MARKS

- (a) Define the term statistical methods and elaborate its components (10 Marks)
- (b) Explain the different class categories into which the data can be sorted and tabulated (10 Marks)
- (c) A bin contains 13 marbles, 8 are red and 5 are white. Successive drawings are made and in the first case Marbles are replaced before the second draw; while in the second case the marbles are not replaced before the second draw. In each case, find the probability that the first drawing will give 3 white and the second 3 red marbles? (10 Marks)

QUESTION TWO

20 MARKS

- (a) Using suitable examples explain the different methods in probability sampling

QUESTION THREE

20 MARKS

Differentiate between the following terms

- Null and alternate hypothesis.
- sampling and non-sampling errors
- Dispersion and skewness
- Primary or Secondary data
- Discrete series and continuous series

QUESTION FOUR

20 MARKS

- (a) Define statistical series and explain the various types of statistical series (8 marks)
- (b) The table below shows production and distribution of milk by Mweni, a farmer in Nairobi for the first six months of 2022.

Month	Jan	Feb	Mar	Apr	May	June
Locally consumed (litres)	18	27	36	9	31.5	22.5
Sold to society (litres)	72	81	90	63	103.5	94.5

From the information above

- Draw a component bar chart to illustrate the above information (8 marks)
- What percentage of milk produced was consumed locally for the six months (4 marks)

QUESTION FIVE

20 MARKS

- (a) The data in the table below was derived from exam marks of students in Kibabii primary.

Marks	0 - 10	10 -20	20 - 30	30 - 40	40 - 50
No. of Students	7	6	15	12	10

From this information

- Compute the Karl Pearson's co-efficient of variation (8 Marks)
 - Comment on the results (2 Marks)
- (b) Write short notes on your understanding of an average and outline the qualities of a good average (10 Marks)