



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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UNIVERSITY EXAMINATIONS 2024/2025

SECOND YEAR, FIRST SEMESTER EXAMINATION FOR DIPLOMA IN BUSINESS
ADMINISTRATION

BFD 2303: INTRODUCTION TO BUSINESS STATISTICS

DATE: DECEMBER 2024

TIME: 1 ½ HOURS

INSTRUCTIONS: *Answer Question ONE (compulsory) in Section A and any other TWO Questions in Section B*

SECTION A

QUESTION ONE – (30 MARKS)

- a) Give a brief definition of the following terms (2 Marks)
- i) Population
 - ii) Sample
- b) Outline three advantages and three disadvantages of using non probability sampling techniques. (6 Marks)
- c) Explain four uses of statistics in a business organization. (8 Marks)
- d) Distinguish between the following terms. (8 Marks)
- i. primary and secondary data
 - ii. stratified sampling and systematic sampling
 - iii. time series and cross sectional data
 - iv. descriptive and inferential statistics

- e) An unbiased coin with two faces, Head and tail is tossed three times, list all possible outcomes. (6 Marks)

SECTION B

QUESTION TWO – (20 MARKS)

- a) In January 2011 ABC Ltd employed 90 staff of whom 79 were male. During the year 17 staff left and 13 of this were men. The total recruitment during the year was 13 out of whom 3 were women. During 2012, wastage declined by 3 amongst men compared to 2011 and no women left. 6 more men but 2 fewer women were recruited than in the previous year. The total number employed on 1st January 2013 amounted to 93. Required; arrange the above data /information in a concise tabular form showing all relevance totals and subtotals. (10 Marks)
- b) Discuss the various areas which statistics is applied. (10 Marks)

QUESTION THREE – (20 MARKS)

Calculate the arithmetic mean from the following data. (10 Marks)

Student number	1	2	3	4	5	6	7	8	9	10
Marks obtained	15	20	25	19	12	11	13	17	18	20

Find the median and mode for the following data (10 Marks)

X	F
11-15	12
16-20	14
21-25	13
26-30	11

QUESTION FOUR – (20 MARKS)

- a) Discuss the methods of presenting data collected and analyzed. (10 Marks)
- b) The following table represent marks scored by candidate in five subjects. The subjects were assigned weights of 1, 2, 1, 3, and 3 respectively.

Subjects	Marks
Communication skills	60
Entrepreneurship	75
Statistics	63
Accounting	59
Business law	55

Calculate the weighted arithmetic mean (10 Marks)

QUESTION FIVE – (20 MARKS)

- a) Consider the data

X	4	5	3	6	10
Y	4	6	5	7	7

Find the regression equation on the form $y=a+bx$ to the data. (10 Marks)

- b) Explain the significance of measuring dispersion. (10 Marks)