Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with A++ Grade by NAAC. Recognized by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India
Continuous Internal Assessment –I (February 2025)
Second Semester

Class: I MBA **Time: 2 Hours**
Branch: Tourism **Max. Marks: 60**

24MTAC12-Business Statistics

Course Outcomes:

CO1: Solve a range of problem using the techniques covered in their respective field of operation
CO2: Understand the key terminology, concepts tools and techniques used in business statistical analysis
CO3: Apply technology to statistical analysis and problem solving
CO4: Analyze discrete and continuous probability distributions to various business applications
CO5: Interpret the relevance of statistical findings for business making.

Part A **6x1=6 Marks**
Choose the Correct Answer

1. Statistics is concerned with CO1K1

a. Qualitative information b. Quantitative Information c. a or b d. Both a & b

2. The word statistics has been derived from Latin word____ CO1K1

a. Status b. Statista c. Statistika d. Statis

3. Mutually exclusive classification is usually meant for CO2K1

a. A discrete variable b. A continuous variable c. An attribute d. Any of these

4. Which form of Graphical representation has a combination of a line and bars? CO2K1

a. Line Graph b. Pie chart c. Frequency polygon d. Histogram

5. The most frequently occurring value in a dataset is called ___ CO3K1

a. Mean b. Median c. Mode d. Range

6.If a dataset has 9 observations, the median will be the CO3K1

a. 3rd observation b. 4^{th} observation c. 5^{th} observation d.6^{th} observation

Part B **3x6 =18 Marks**

Answer ALL questions

Each answer should not exceed 400 words or two pages

7. a. Explain the methods employed for the collection of primary data CO1K2

(or)

7. b. Discuss the Sources of Secondary data CO1K2

8. a. Write the general rules for constructing diagrams CO2K2

(or)

8. b. Prepare a bivariate frequency distribution for the following data, taking class intervals for X as 25-35, 35-45, 45-55, etc., and for Y as 105-120, 120-135, etc. where X denotes the age in years and Y denotes blood pressure for a group of 20 people. The required data is: (45, 141); (26, 130); (62, 150); (28, 114); (55, 138); (36, 120); (48, 142); (40, 139); (28, 105); (32, 135); (31, 153); (37, 151); (59, 149); (50, 151); (48, 121); (47, 126); (33, 131); (42, 154); (49, 151); (34, 118). CO2K5

9. a. Explain the concept of Central tendency CO3K1

(or)

9. b. Calculate the arithmetic mean for the following data: 12,15,18,10,20,25,30. CO3K5

Part – C **3x12=36 Marks**

Answer ALL questions

Each answer should not exceed 800 words or four pages

10. a. Describe the Scope of Statistics in Business Management in detail. CO1K3

(or)

10.b. Discuss the Principles of measurements with suitable examples. CO1K2

11. a. Illustrate the different methods of data classification with examples. CO2K3

(or)

11. b. Prepare a frequency distribution table for the scores given:

42 22 55 18 50 10 33 29 17 29 29 27 34 15 40 42 40 41 35 27
44 31 38 19 38 54 55 19 20 30 42 59 15 19 27 23 40 32 28 51

Take the class intervals as 10-20, 20-30, 30-40, 40-50, 50-60. CO2K4

From the frequency distribution table answer the following questions:

i) What does the frequency correspond to the class interval 20-30 indicates?
ii) In which class interval the class 10,20 and 30 included?
iii) Find the range of the scores?

12. a. Summarize the concept of Arithmetic mean with its advantages and disadvantages. CO3K3

(or)

12. b. Compute the mean, median and mode for the following grouped data and interpret the results: CO3K4

Class Interval	Frequency
0-10	5
10-20	8
20-30	12
30-40	6
40-50	4

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