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Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem.-2)
FUNDAMENTALS OF STATISTICS
Subject Code : UGCA-1907
M.Code : 77415
Date of Examination : 17-12-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly:

- a. Discuss the importance of Statistics.
- b. Distinguish between primary and secondary data.
- c. What is the importance of classifying data in statistics?
- d. Explain the purpose of tabular presentation in data classification.
- e. A company collected data on the monthly sales figures of their top five products:
120, 150, 180, 200 and 250 units. Calculate the arithmetic mean.
- f. What is meant by the term "Central Tendency" in Statistics?
- g. Calculate the mode for the following data set: 4, 5, 6, 6, 7, 8, 6, 9.
- h. Calculate the coefficient of variation for the following data where the standard deviation is 10 and the mean is 50.
- i. Define "Range".
- j. Discuss the merits & demerits of Mean Deviation.

SECTION-B

2. Discuss the scope, functions, and limitations of statistics. Also, explain why there is distrust in statistics?
3. Explain the different methods of data collection, including both primary and secondary data. Highlight the potential sources of statistical errors.
4. Create a frequency distribution and calculate the cumulative frequency for the following data set:

7, 8, 12, 13, 8, 14, 11, 10, 15, 13, 9, 8, 12, 14, 10.
5. Describe the different types of diagrams and graphs used in presenting data. What are the advantages and disadvantages of using these visual aids?
6. Calculate the arithmetic mean, median, and mode for the following data and discuss when each measure is most appropriate: 5, 8, 12, 5, 10, 8, 15, 10, 8, 5.
7. Calculate the range, mean deviation, and standard deviation for the following data set: 5, 10, 15, 10, 20, 25, 30, 25, 20.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student