

Roll No.

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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: 09-12-2025

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) Explain the uses and importance of statistics in real-world applications.
- b) Define rounding off data. Why is it important in data analysis?
- c) **Arrange the following data in a frequency distribution table:**

| Data | 8,10,12,10, 8,15,12,10, 8,12 |
- d) Differentiate between diagrammatic and graphic presentation of data.
- e) Calculate the median for the data set: 40, 25, 35, 20, 30.
- f) What are the characteristics of a Good Average?
- g) Describe the merit and demerit of using median as a measure of central tendency.
- h) Find the standard deviation of the following data set: 5, 15, 25, 20,10.
- i) Discuss the objectives of Dispersion.
- j) Describe the coefficient of variation.

SECTION-B

2. Define statistics and discuss its origin, features and scope. How does it contribute to decision-making processes?
3. Explain the methods of collecting primary and secondary data. Discuss the advantages and disadvantages of each method.
4. Describe the components and types of statistical tables. What are the general rules for constructing a good table?
5. **Explain the process of creating a frequency distribution table and construct one for the following data:**

12, 15, 10, 15, 20, 12, 15, 18, 12, 10, 20, 15.
6. A factory produces items that have weights recorded as follows (in grams): 150,155,160, 150,165,160,155,160. Calculate the arithmetic mean, median, and mode for this data and discuss their relevance.
7. **The following data set represents the marks obtained by students in a test:**
45, 55, 60, 65, 70, 75, 80, 85, 90, 95.

Calculate the range, mean deviation and co-efficient of variation for this data.

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