BCA (Sem.–2)

FUNDAMENTALS OF STATISTICS

Subject Code : UGCA-1907

M.Code : 77415

Date of Examination : 10-08-21

Time : 2 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE question(s), each question carries 12 marks.**

1. Give a suitable definition of statistics. 'A course in statistics is important to you as a student', Comment. Point out the limitations of Statistics.

2. Discuss the various methods used in the collection of primary data. Which of these is most reliable and why?

3. Define classification and objectives of classification. Explain different kinds of classification with suitable examples.

4. Define Histogram, Frequency Polygon and Frequency Curve and also construct these with some imaginary data.

5. Calculate mean, median and mode from the following data :

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
No. of Students	4	22	30	41	27	13	9	4

6. "*Every average has its own particular characteristics. It is difficult to say which average is best.*" Illustrate with examples. Also give merits and demerits of each average.

7. Calculate standard deviation of first n natural numbers and find the mean and standard deviation of the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.

8. List various methods of computing dispersion with their merits and demerits. Which method is best and why?

<u>Note</u>: **Any student found attempting answer sheet from any other person(s), using incriminating material or involved in any wrong activity reported by evaluator shall be treated under UMC provisions.**

Student found sharing the question paper(s)/answer sheet on digital media or with any other person or any organization/institution shall also be treated under UMC.

Any student found making any change/addition/modification in contents of scanned copy of answer sheet and original answer sheet, shall be covered under UMC provisions.