25U136S (Pages: 2) Name: .....

Reg.No: .....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2025

(CBCSS - UG)

(Supplementary)

CC19USTA1C02 - DESCRIPTIVE STATISTICS

(Statistics - Complementary Course)

(2019 to 2023 Admissions)

Time : 2.00 Hours Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer ***all*** questions. Each question carries 2 marks.

1. Mention any two advantages of sampling.
2. Name any two statistical organizations in India.
3. Define Simple Bar diagram.
4. What are the objectives of classification?
5. Define frequency distribution.
6. What are the merits of median?
7. Find the mode of the following data 0, 3, 2, 1, 3, 5, 4, 3, 4, 2, 1, 2, 0.
8. Compute harmonic mean of 23, 33, 21, 25, 36, 26.
9. Define range and quartile deviation.
10. What is mean deviation?
11. Distinguish between deciles and percentiles.
12. What do you mean by kurtosis?

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer ***all*** questions. Each question carries 5 marks.

13. Explain the various method of collecting data.
14. Draw the histogram for the following data:

Monthly wages '000 Rs.	11-13	13-15	15-17	17-19	19-21	21-23	23-25
No. of workers	6	53	85	56	21	16	8

15. Draw two ogives for the following data and determine median graphically.

Class	0-10	10-20	20-30	30-40	40-50
Frequency	5	12	8	15	10

16. The average salary of male employees in a firm was Rs. 5200 and that of females was Rs. 4200. The mean salary of all employees was Rs. 5000. Find the percentage of male and female employees.

17. Calculate GM

x	5	15	25	35	45
Frequency	8	12	20	6	4

18. Distinguish between absolute and relative measures of dispersions.Give two examples each.

19. Obtain Karl Pearson's measure of skewness for the following data:

Class interval	130-134	135-139	140-144	145-149	150-154	155-159	160-164
Frequency	6	8	17	21	15	11	2

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any ***one*** question. The question carries 10 marks.

20. Explain different methods of measuring central tendancy and discuss its merits and demerits.

21. Calculate standard deviation and its corresponding relative measure for the following data.

Class	0-100	100-200	200-300	300-400	400-500	500-600	600-700	700-800	800-900
Frequency	24	12	8	28	15	22	30	32	19

(1 × 10 = 10 Marks)

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