

24U136S

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Name:

Reg.No:

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(CBCSS - UG)

CC19U STA1 C02 - DESCRIPTIVE STATISTICS

(Statistics - Complementary Course)

(2019 to 2023 Admissions - Supplementary/Improvement)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

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

1. Explain the uses of statistics.
2. Write any two advantages of sampling.
3. Define Simple Bar diagram.
4. Define Histogram.
5. Explain ogives.
6. Write any two advantages of mode.
7. Calculate geometric mean of 7, 8, 6, 4, 3, 2, 8, 1.
8. Define Harmonic mean.
9. Define dispersion.
10. Write any two disadvantages of mean deviation.
11. What are Quartiles?
12. What are the three types of 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. What is meant by classification? Briefly explain the different types of classification of data.
15. Discuss the important components of frequency distribution.
16. The mean of the combined sample of size 100 is 17 of which the mean of one sample of size 60 is 15. Find the mean of other sample.

17. Eight coins were tossed together and the number of heads resulting was noted. The operation was repeated 256 times and the frequencies (f) that were obtained for different values of x, the number of heads, are shown in the following table. Calculate median and 5th decile.

x	0	1	2	3	4	5	6	7	8
f	1	9	26	59	72	52	29	7	1

18. Calculate the QD and coefficient of QD from the data given below.

Maximum Load	9.3-9.7	9.8-10.2	10.3-10.7	10.8-11.2	11.3-11.7	11.8-12.2	12.3-12.7	12.8-13.2
No. of Cables	2	5	12	17	14	6	3	1

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

Values	5-10	10-15	15-20	20-25	25-30	30-35	35-40
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. Define measures of central tendency and its properties. Explain different types of averages.
21. Calculate standard deviation and its corresponding relative measure for the following data.

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Frequency	8	4	3	12	15	6	8	1	3

(1 × 10 = 10 Marks)
