UG PROGRAM (4 YEARS HONOURS) WITH SINGLE MAJOR
AT THE END OF SECOND SEMESTER
DATA SCIENCE-DESCRIPTIVE STATISTICS (B.Sc HONOURS-MAJOR)
(w.e.f. Admitted Batch 2023-24)

Time: 3Hours   Maximum: 70 marks

SECTION- A

Answer any **FIVE** questions. Each question carries 4 marks.   (5 x 4 = 20 M)

1. Define Mean, Median and Mode.
2. Explain Skewness.
3. Explain fitting of straight line by using principle of least square.
4. Define independence of attributes.
5. Define Scatter Diagram.
6. Define Logistic Regression.
7. Define partial and multiple correlation.
8. Explain correlation v/s regression.

SECTION- B

Answer **All** the questions. Each question carries 10 Marks   (5 x 10 = 50M)

9. (a) Explain primary and secondary data.

(Or)

(b) Explain Diagrammatic and graphical representation of Histogram, polygon and pie.

10. (a) Derive central moments in terms of non-central moments and non-central moments in terms of central moments.

(Or)

(b) Explain Measures of dispersion.

11. (a) Explain Exponential Distribution.

(Or)

(b) Derive Spearman's rank correlation.

12. (a) Derive regression lines of x on y and y on x.

(Or)

(b) Explain properties of regression coefficients.

13. (a) Explain association of attributes and its measures.

(Or)

(b) Explain contingency table.

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