

23BDS302

UG PROGRAM (4 YEARS HONOURS) WITH SINGLE MAJOR
AT THE END OF THIRD SEMESTER
DATA SCIENCE-INFERENTIAL AND APPLIED STATISTICS
(B.Sc HONOURS-MAJOR)

(w.e.f. Admitted Batch 2023-24)

Time: 3Hours

Maximum: 70 marks

Section-A

5 x 4 = 20

Answer any Five Questions.

1. Define Population, Sample, Parameter, Statistics.
2. Explain Statistical Hypothesis, and Critical Region.
3. Explain Illustrations, additive, and multiplicative models.
4. Explain t-test for single mean.
5. Explain Uses of Vital Statistics.
6. Explain Statement of Central Limit Theorem.
7. Explain Types of Errors, and Level of Significance.
8. Define Ordinal Scale of Measurement.

Section-B

5 x 10 = 50

Answer All Questions.

9. a) Explain Chi-square distribution.
(Or)
b) Explain F- distribution.
10. a) Explain Criteria of Good Estimator.
(Or)
b) Explain Binomial Distribution.
11. a) Explain Goodness of fit and Independence of attributes.
(Or)
b) Explain two standard deviations and advantages of non-parametric test.
12. a) Explain method of moving average method.
(Or)
b) Explain parabolic trend by using least square.
13. a) Explain Construction of life table.
(Or)
b) Explain types of mortality briefly.