

Regd. No: _____

(5444/ STA M-5305)

B.SC (DATA SC) Degree (Honours) Examinations- 30 OCT 2025

SEMESTER-V (REGULAR)

(ADMITTED BATCH 2023-24 ONLY)

APPLIED STATISTICS (M)

TIME: 3 Hrs

Max Marks:60

Pass Marks : 24

SECTION-A

Answer any FIVE of the following

(5x4=20 M)

1. Define Time series. Write its Uses.
2. Explain Irregular variations in Time series.
3. Explain the Method of Simple Averages.
4. Explain Deseasonalisation.
5. Write limitations of Index Numbers
6. Explain the methods of constructing CLI.
7. Explain Base Shifting.
8. Write a short note on Wholesale Index number.
9. Write the uses of Vital Statistics.
10. Explain Growth Rates.

SECTION-B

Answer ALL the following

(5x8=40 M)

11. Explain the components of Timeseries.

(OR)

12. Explain the method of Least Squares to measure trend.

13. Explain the method of Link relatives.

(OR)

14. Explain the method of Ratio to Trend to measure seasonal variations.

15. Explain Problems in construction of Index numbers.

(OR)

16. Explain criteria of good index number.

17. Explain the fixed and chain-based index number.

(OR)

18. Explain Deflating and splicing.

19. Explain various measures of Fertility.

(OR)

20. Explain the complete Life- Table.

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B.SC (DATA SC) Degree (Honours) Examinations- 01 NOV 2025

SEMESTER-V (REGULAR)

(ADMITTED BATCH 2023-24 ONLY)

COMPUTATIONAL STATISTICS AND R PROGRAMMING (M)

TIME: 3 Hrs

Max Marks:60

Pass Marks : 24

SECTION-A

Answer any FIVE of the following

(5x4=20 M)

1. Explain mass storage devices.
2. Explain the concept of files and folders
3. Explain matrix operation using Excel functions.
4. How can you Export EXCEL Output to MS-Word.
5. Explain fitting of straight line in Excel.
6. Explain the difference between FORECAST and TREND functions in Excel.
7. Explain Arithmetical logical operators in R.
8. Write About Basic Functions in R.
9. Describe about Handle missing values in R.
10. Write a code snippet to add /remove a row to /from an existing data frame.

SECTION-B

Answer ALL the following

(5x8=40 M)

11. Explain the types of software with examples.

(OR)

12. Explain the Block diagram of the computer and its Components.
13. Discuss data entry and editing features in Excel.

(OR)

14. Explain how to create Bar, Line and PIE Charts in Excel.
15. Explain the steps for fitting of polynomial and power curves using Excel.

(OR)

16. Discuss about Data Analysis Pak and its features.
17. Explain the data types in R – programming.

(OR)

18. Explain Recycling, Filtering and Sub setting related to Vectors in R.
19. Discuss The Creation of Matrix and Various Operations on Matrices in R.

(OR)

20. Discuss various types of visualizations in R.