



B.Sc. VI Semester Degree Examination, Sept./Oct. - 2024

COMPUTER SCIENCE

Statistical Computing and R Programming

(NEP)

Time : 2 Hours

Maximum Marks : 60

SECTION - A

1. Answer the following questions. Each question carries **one** mark. **10x1=10**
- (a) Define R Programming.
 - (b) What is plotting ?
 - (c) Define loop.
 - (d) Mention any two functions of reading data from files in R.
 - (e) What is normal distribution ?
 - (f) What is Probability ?
 - (g) Define testing.
 - (h) Mention the types of categorical variables.
 - (i) What is advanced graphics ?
 - (j) List the types of regression.

SECTION - B

Answer **any four** of the following questions. Each question carries **five** marks.

4x5=20

- 2. Write an R program that include variables, constants and datatypes.
- 3. What is function in R ? Explain with an example.
- 4. What is data visualization ? Mention any four packages of it.
- 5. Write a note on ANOVA.
- 6. Explain 3D Scatterplots.
- 7. Discuss the exception in R.



SECTION - C

Answer **any three** of the following questions. Each question carries **ten** marks.

3x10=30

8. Explain the different types of data structures in R.
9. Explain various conditional statements with syntax and example.
10. What is poisson distribution ? Explain the types with example.
11. Explain the sampling distribution with an example.
12. Explain the linear regression with an example.

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