



DCCA – 502

**V Semester B.C.A. Degree Examination, December 2024/January 2025
(NEP) (Freshers and Repeaters)
COMPUTER APPLICATIONS
DSC 14 : Statistical Computing and R Programming**

Time : 2½ Hours

Max. Marks : 60

Instruction : Answer all the Sections.

SECTION – A

I. Answer any 6 questions, each question carries 2 marks.

(6×2=12)

- 1) List the assignment operator in R.
- 2) What are data frames ?
- 3) Mention any two output statements in R.
- 4) Write the syntax of while loop in R.
- 5) What is probability ?
- 6) What is the use of PDF ?
- 7) What is testing ?
- 8) What are errors ?
- 9) What is point-and-click ?



SECTION – B

II. Answer any 4 questions, each question carries 6 marks.

(4×6=24)

- 10) Explain the various features of the R program.
- 11) Write a note on basic plotting.
- 12) Write an R program that includes control structures.
- 13) Explain normal distribution in R.
- 14) Explain the concept of sampling distribution.
- 15) Write a note on 3D scatters plots.

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SECTION – C

(3×8=24)

III. Answer any 3 questions, each question carries 8 marks.

16) Write a note on :

a) Matrices.

b) Lists.

17) Explain the concept of user defined functions in R with an example.

18) Explain Bernoulli and Binomial functions in R.

19) Explain the different types of ANOVA techniques.

20) Write a note on :

a) Simple Linear Regression.

b) Representing and using colors.

