



QP CODE: 26019273



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Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION MARCH 2026

Fourth Semester

M Sc OPERATIONS RESEARCH AND COMPUTER APPLICATIONS

ELECTIVE - CE840403 - R-PROGRAMMING

2019 Admission Onwards

9CA82C1A

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What you mean by repeat a vector?
2. How to find amount of rows and columns in an array?
3. Explain R-Next statement.
4. Compare if else if and switch statement.
5. Explain cumsum() and cumprod().
6. What is the use of cat() function in R?
7. Explain about R graphics devices.
8. How to change the texture of a barchart?
9. Explain summary () in R.
10. Mention any two applications of t-distribution .

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Explain different data structures in R.
12. Explain the term loop through matrix.
13. Explain used defined functions in R.
14. How R programming manages without pointers? Explain with examples.





15. Explain `crossprod()` function with example.
16. Explain Markov modelling.
17. How to display more than one lines in a graph? Explain with examples.
18. Explain some Probability Distribution functions.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain different types of operators available in R programming.
20. Explain Functions in R programming.
21. Explain functions used in statistical distribution.
22. How to create a graphics content in R programming? Explain with examples.

(2×5=10 weightage)

