24U495 (Pages: 2) Name: .....

Reg.No: .....

FOURTH SEMESTER B.Voc. DEGREE EXAMINATION, APRIL 2026

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC21USDC4DS13 - DATA SCIENCE WITH R PROGRAMMING

(Information Technology - Skill Component Course)

(2021 Admission onwards)

Time : 2.00 Hours Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer ***all*** questions. Each question carries 2 marks.

1. How do you create vectors in R?
2. What are the functions used for writing data to file?
3. Define file() function.
4. Define how do you subsetting a list.
5. Define Vectorized Operations.
6. Give examples of while loop in R.
7. What is the lazy evaluation of function?
8. Define split().
9. What are the steps in exploratory data analysis?
10. Explain K-Mean clustering.
11. Define Logistic Regression.
12. Explain geoms in ggplot2.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer ***all*** questions. Each question carries 5 marks.

13. Give any five features of R.
14. Differentiate between Vector, List, Matrix, and Data frame.
15. What are the textual and Binary Formats for Storing Data in R?
16. Explain about dates and times in R.

17. Give examples of “select” and “filter” functions from “dplyr” package.

18. Explain object oriented programming in R

19. Explain decision tree and Random Forest classifiers in R.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any ***one*** question. The question carries 10 marks.

20. What are the different control structures in R?

21. Explain stringr package. What are the different functions in stringr package?

(1 × 10 = 10 Marks)

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