

Code No.: CS831OE

R20

H.T.No.

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R

CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS

IV–B.TECH–II–Semester End Examinations (Advanced Supply) – June - 2025

R PROGRAMMING

(MECH)

[Time: 3 Hours]

[Max. Marks: 70]

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART-A**

**(20 Marks)**

1. a) List the packages in R. [2M]
- b) What are the features of R language? [2M]
- c) Write the vector and subscripts. [2M]
- d) Define control structures. [2M]
- e) Difference between a list and a data frame in R. [2M]
- f) How is Data frame different from list? [2M]
- g) What are the factors in R programming? [2M]
- h) What is the factor attribute in R? [2M]
- i) What are the functions of statistical analysis in R? [2M]
- j) Write the S classes. [2M]

**PART-B**

**(50 Marks)**

2. Explain the R data types and objects with their examples. [10M]
- OR**
3. Discuss the reading and writing of data in R. [10M]
- OR**
4. Describe the vectors and subscripts. [10M]
- OR**
5. Explain the vector indexing. [10M]
- OR**
6. List and explain the various operations of the list. [10M]
- OR**
7. Discuss the creating data frames in detail. [10M]
- OR**
8. How do you find the cumulative mean in R? Discuss [10M]
- OR**
9. Discuss the functions for statistical distributions. [10M]
- OR**
10. Explain the S generic functions. [10M]
- OR**
11. Describe the statistical analysis with R. [10M]

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