

Code No.: CS8310E

R20

H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS

IV-B.TECH-II-Semester End Examinations (Regular) – April - 2024

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) What are the benefits of learning R? [2M]
- b) Difference between source and run in R? [2M]
- c) What are vectors in R programming? [2M]
- d) How to write a vector in R? [2M]
- e) What are data frames in Rstudio? [2M]
- f) What is the function data frame in R? [2M]
- g) How do I create a table of results in R? [2M]
- h) What are the variable types in R factor? [2M]
- i) Why do statisticians use R? [2M]
- j) How is R used in data analysis? [2M]

PART-B

(50 Marks)

2. Explain the complex numbers in R. [10M]
- OR
3. Discuss the essentials of the R language. [10M]
4. Describe the common vector operations. [10M]
- OR
5. Illustrate the adding and deleting vector elements. [10M]
6. Describe the creating data frames in detail. [10M]
- OR
7. What is data frame and how do you create data frame? Explain. [10M]
8. Explain the cumulative sum in R programming. [10M]
- OR
9. Give a brief note on math functions. [10M]
10. Discuss the inheritance in OOP and polymorphism. [10M]
- OR
11. Explain the visualization and simulation. [10M]
