Code No.: CS512PE | R20 | H.T.No. | | | 8 | R | | | | | |

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III–B.TECH–I–Semester End Examinations (Supply) - December- 2025
DATA ANALYTICS USING R
(CSE)

[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.

	PART-A	**(20 Marks)**

1. a) List the commands used in Data Exploration.   [2M]
   b) Specify the purpose of 'as operator.   [2M]
   c) What is meant by Grouping of data?   [2M]
   d) What is standard deviation?   [2M]
   e) Define Regression.   [2M]
   f) What is model fitting?   [2M]
   g) Define Logistic regression.   [2M]
   h) What is Generalized linear model?   [2M]
   i) What is decision tree learning?   [2M]
   j) What is inductive bias?   [2M]

	PART-B	**(50 Marks)**

2. Discuss in detail about Aggregating and Group Processing of a variable with examples.   [10M]

OR

3. Explain with examples on the various methods of reading data and R GUIs for Data input.   [10M]

4. Explain in detail about percentiles and Quartiles with examples.   [10M]

OR

5. Explain in detail about the role of statistics in Data Analytics as a domain.   [10M]

6. What is Linear regression? Specify the required assumptions to be made.   [10M]

OR

7. Describe the validation of Linear Assumption with an appropriate example.   [10M]

8. How is diagnosing done in Logistic regression ?   [10M]

OR

9. Discuss about Multinomial logistic regression models.   [10M]

10. Discuss with a program for representing Decision Tree in R.   [10M]

OR

11. Explain the appropriate problems for decision tree learning.   [10M]

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