

Code No.: AD514PE

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**CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS**

**III-B.TECH-I–Semester End Examinations (Supply)–December - 2024
DATA WAREHOUSE & DATA MINING**

(AI&DS)

[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) Define data mining. [2M]
- b) Explain about the applications of data mining. [2M]
- c) Define Data Cube. [2M]
- d) Differentiate between Data mining and Data warehouse. [2M]
- e) List the advantages of using decision trees. [2M]
- f) What is meant by classification? [2M]
- g) Explain about the applications of cluster analysis. [2M]
- h) Mention the Key issues in hierarchical clustering. [2M]
- i) Give the taxonomy of web mining. [2M]
- j) Define data stream mining. [2M]

PART-B

(50 Marks)

- 2.a. Explain about the Data Cleaning techniques in detail. [5M]
 - b. Explain Various Data Mining Functionalities with an example. [5M]
- OR**
- 3.a Explain the need of data preprocessing and various forms of preprocessing. [5M]
 - b Discuss about challenging issues in Data Mining. [5M]
- 4.a. Draw the Data warehouse Architecture and explain its Components. [5M]
 - b. Discuss about OLAP technology for Data Mining. [5M]
- OR**
5. Define Data warehouse. Discuss Construction of Multi-dimensional data model and its operations. [10M]
6. What is a decision tree? Explain decision tree induction algorithm. [10M]
- OR**
- 7.a. Compare the methods of classification and prediction. [5M]
 - b. How to evaluate performance of classification model? Explain. [5M]

8. Appraise the importance of outlier detection and its application. Explain any one approach for outlier detection. [10M]

OR

9.a. Briefly explain the Evaluation of Clustering Algorithms. [5M]

b. Categorize major clustering methods. [5M]

10. Explain briefly about

a. Multimedia Data Mining [5M]

b. Mining World Wide Web [5M]

OR

11. Explain the following:

a. Spatial data mining [5M]

b. Text Mining [5M]
