

Code No.: CS701PC

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H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS

IV–B.TECH–I–Semester End Examinations (Supply) - December- 2025

DATA MINING

(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 and may have a, b, c as sub questions.

PART-A

(20 Marks)

1. a) Define data mining. [2M]
- b) What is missing data? [2M]
- c) Define frequent patterns. [2M]
- d) What is Support? [2M]
- e) State classification. [2M]
- f) Describe tree pruning. [2M]
- g) What are the applications of clustering? [2M]
- h) State K-Means method. [2M]
- i) Define Web mining. [2M]
- j) Define data stream mining. [2M]

PART-B

(50 Marks)

2. List and describe the five primitives for specifying the data mining tasks. [10M]

OR

3. What Data preprocessing? Explain various forms of data preprocessing. [10M]
4. Explain the APRIORI algorithm with an example. [10M]

OR

5. Discuss in brief about,
(a) Maximum frequent itemset [5M]
(b) Closed frequent itemset [5M]
6. Discuss briefly about Decision tree induction algorithm. [10M]

OR

7. Describe Bayesian Belief Network with an example. [10M]

8. Explain in briefly about PAM (partition around medoids) algorithm. [10M]

OR

9. Explain the concept of hierarchical clustering. Discuss the agglomerative and divisive approaches. [10M]

10. Explain text clustering in detail. [10M]

OR

11. Discuss the process of mining the World Wide Web. Explain web structure mining. [10M]
