

Code No.: R22IT512PE/R22DS504PC  
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**CMR ENGINEERING COLLEGE: : HYDERABAD**  
**UGC AUTONOMOUS**  
**III-B.TECH-I-Semester End Examinations (Regular) - December- 2024**  
**DATA MINING**  
**(Common for IT, CSD, CSM)**

[Time: 3 Hours]

[Max. Marks: 60]

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

Part A is compulsory which carries 10 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**

**(10 Marks)**

1. a) What is KDD? [1M]
- b) Define Data mining Tasks. [1M]
- c) Explain the market basket analysis. [1M]
- d) Define Pattern mining. [1M]
- e) Define neural network. [1M]
- f) List the components of decision tree. [1M]
- g) What is clustering? [1M]
- h) Define Outlier. [1M]
- i) Describe temporal mining. [1M]
- j) What is spatial mining? [1M]

**PART-B**

**(50 Marks)**

2. Discuss about Data Discretization with its methods. [10M]
- OR**
3. Explain data preprocessing techniques. [10M]
4. Explain Apriori Algorithm with an example. [10M]
- OR**
5. Write are the applications and advantages of market basket analysis. [10M]
6. Explain Bayes classification methods with example. [10M]
- OR**
7. What is K-Nearest –Neighbor classifier and explain with an example. [10M]
8. Explain Outlier detection methods. [10M]
- OR**
- 9.a) Discuss about basic clustering methods. [5M]
- b) Explain density based method of DBSCAN. [5M]
10. Describe Web Mining in detail. [10M]
- OR**
11. Explain Temporal mining Modeling and events. [10M]

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