

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF COMPUTER APPLICATIONS
EXAMINATION : DECEMBER - 2025
SEMESTER - III

Sub : Data Mining & KDD (MCA- 300-22/MCA24-301)

Date : 23/12/2025

Total Marks : 60

Time: 2.00 pm To 4.30 pm

Instruction:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagram wherever necessary.

Q. 1. Answer the following in 2 - 3 lines. (Any 5) (10)

1. What is decision tree?
2. Define metadata?
3. List data mining techniques?
4. Define data selection.
5. What are facts?
6. What is ROLAP?
7. Define data cube.

Q. 2. Answer the following in short. (Any 4) (20)

1. What are the main steps of the KDD process?
2. What is the importance of feature selection in data mining?
3. Explain the difference between descriptive and predictive data mining tasks.
4. What are the main challenges faced in data mining?
5. Why is data preprocessing necessary in data mining?
6. How do supervised learning and unsupervised learning differ in data mining?

Q. 3. Answer the following in detail. (Any 3) (30)

1. Describe hierarchical method of clustering.
 2. Explain the concept of association rule mining with an example.
 3. Describe Apriori Algorithm.
 4. Explain star schema? How does it differ from a snowflake schema in data warehousing?
 5. How does data warehousing support business intelligence and decision-making? Give examples.
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