TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF COMPUTER APPLICATIONS
EXAMINATION : MAY - 2024
SEMESTER - III
Sub : Data Mining & KDD (MCA- 300-22)

Date :28/05/2024	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. Define metadata?
2. What are operational databases?
3. Define dimension table?
4. What is data mart?
5. Define HOLAP?
6. Define data warehouse?
7. What are facts?

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

1. Explain dimensional data modeling.
2. State and explain any 5 applications of data mining.
3. Describe data mining issues.
4. What is association rule mining?
5. Explain data mining tasks.
6. Explain the difference between a star schema and a snowflake schema

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

1. Describe hierarchical method of clustering.
2. State and describe the challenges of data warehousing?
3. Explain the role of data marts in data warehousing?
4. Describe apriori algorithm. Explain how association rules are generated from frequent item sets.
5. Describe the role of data mining in social media?