

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF SCIENCE (M.SC) IN COMPUTER APPLICATIONS
EXAMINATION : MAY - 2024
SEMESTER - II

Sub: Data Mining & Data Warehousing - (MSC-206-22)

Date : 27/05/2024

Total Marks : 60

Time: 10.00 am to 12.30 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 diagrams wherever necessary.

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

1. What is Decision tree?
2. State data selection process.
3. Define OLAP.
4. What do you mean by support and confidence?
5. What are the classifications of tools for data mining?
6. What is data mart?
7. List the characteristics of a data ware house.

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

1. Describe the benefits of clustered systems.
2. Explain the components of Data warehouse in detail.
3. Distinguish between classification and prediction
4. Describe descriptive and predictive data mining?
5. What do you understand about knowledge discovery?
6. Describe Naive Bayes Algorithm.

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

1. What are the steps in data mining process?
2. What is clustering? What are the requirements of clustering? State the categories of clustering methods?
3. Explain the architecture of Data warehouse in detail with a neat diagram.
4. Explain the Apriori Algorithm. Also explain how the association rules are generated from frequent item sets.
5. Briefly discuss the schemas for multidimensional databases