UNIT-III

6. Define association rule mining and explain how Apriori algorithm works, with suitable example. [16]

7. List and discuss about the primitives involved in specifying a data mining task. [16]

UNIT-IV

8. (a) Discuss classification method using Decision Tree Induction with the help of an example. [10]

   (b) Write a short note on web mining. [6]

9. (a) Explain the working of naive Bayesian classifier with an example. [10]

   (b) Write a short note on temporal data mining. [6]

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M.C.A. 4th Sem. (with new notes)
M.M. 80

Examination–May, 2017
DATA WAREHOUSING & MINING (NEW)

Paper-MCA-402

Time : 3 hours	Max. Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Question No. **1** is **compulsory**. Attempt **four** more questions selecting **one** question from each unit. All questions carry equal marks.

1. Answer the following questions briefly:
   [8×2 = 16]

   (a) What are the characteristics of data warehouse ?

(b) What are the differences between data warehouses and operational database systems ?

(c) What is the need of multidimensional data model ?

(d) Why data preprocessing is important for data mining ?

(e) Define Categorical and Ordinal Variable.

(f) What is Classification ? How is it different from Prediction ?

(g) What is Concept Hierarchy in data mining ? Give an example.

(h) What is Outlier Analysis ? Discuss its significance.

UNIT-I

2. (a) Explain the three tier architecture of a data warehouse with diagrammatic illustration. [10]

(b) Differentiate between Enterprise Warehouse, Data Mart and Virtual Warehouse. [6]

3. (a) Explain Star Schema and Snowflake Schema with the help of example. [10]

(b) What is Data Mart ? What are the types of Data Mart ? [6]

UNIT-II

4. (a) List and explain various OLAP operations for Multidimensional Data with suitable examples. [10]

(b) What is OLAP server ? Discuss the various types of OLAP servers. [6]

5. (a) What is Data cube ? Explain with the help of an example. How many cuboids can be formed in an n-dimensional data cube ? [8]

(b) What are the various methods of indexing of OLAP data ? Explain. [8]