Roll No .....

IT-840

B.E. VIII Semester

Examination, June 2014

Data Mining and Warehousing

Elective-IV

Time : Three Hours

Maximum Marks : 70

Note: Attempt any one question from each unit. All questions carry equal marks.

UNIT-I

1. a) What is data Warehouse? How is a data Warehouse? How is a data warehouse different from a database?
   b) Differentiate between Star-Snow flake schemas with the help of examples.

OR

2. a) What is data warehouse? Discuss a three tier data Warehouse.
   b) How is data Warehouse different from a database? How are they similar?

UNIT-II

3. a) Discuss various types of OLAP servers. How are the data actually stored in different server architectures?
   b) Briefly compare the following concept.
      i) ROLAP versus MOLAP versus HOLAP servers.
      ii) Rool-up, Drill-down, Slice and Dice OLAP operations.

OR

4. a) What is meant by data Warehouse schemas? Draw schemetic diagrams of its various term.

   b) Describe the following term
      (i) Data cube (ii) Data Warehouse architecture.

UNIT-III

5. a) What is meant by data transformation?
   b) Describe the issue to be considered during data integration.

OR

6. a) What do you understand by dimensionality reduction? Discuss any two methods of dimensionality reduction.
   b) Why preprocessing of data is required? What are the various for preprocessing.

UNIT-IV

7. a) How can we improve the efficiency of apriori based mining.
   b) Describe the of pruning in levelwise algorithms. What is its importance?

OR

8. a) Write an algorithm for discovering itemsets without candidate generation.
   b) Discuss mining of multilevel association rules and explain how to check redundent multilevel association rules.

UNIT-V

9. a) Write an algorithm for decision tree induction. Give important characteristics of decision tree induction algorithms.
   b) What are the different categories of clustering method.

OR

10. Write short note on any four of the following
    a) Pridiction Analysis
    b) Cluster projection
    c) K - cluster
    d) Intra - attribute summary
    e) Partitioning methods.

