BT-8/M-18 . 38009

DATA WAREHOUSING AND DATA MINING
CSE-476

Time : Three Hours]   [Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. What is Data Warehouse ? Discuss the steps for designing, construction and implementation of data warehousing.

   15

2. What is Data Mining ? Explain different tools of data mining. Give an example of business application where data mining can be used.   **15**

Unit II

3. (a) Differentiate between LAN based and Virtual data warehousing ?   **8**

   (b) Compare OLTP and OLAP in a table.   **7**

4. Write notes on the following : 15
   (a) Centralized data warehousing
   (b) Distributed data warehousing.

Unit III

5. Describe 2-Tier architecture of Data Warehousing. With a block diagram, explain the various components of a typical 2-Tier architecture. 15

6. What do you understand by Decision Support System (DSS) ? What is the difference between DSS and Management Information System (MIS) ? Write a detailed note on the use of data warehousing and mining DSS.

   15

Unit IV

7. (a) Describe the steps involved in Knowledge Discovery in database (KDD). 8
   (b) What is multilayer feed-forward neural network ?

   7

8. (a) What is Fuzzy Logic ? Write a note on the use of Fuzzy logic in data mining. 8
   (b) How can Genetic algorithm facilitate knowledge discovery in a data warehouse ? Discuss. 7