

Roll No.....

8809

Printed Pages : 3

BT-8 / M12

DATA WAREHOUSING AND DATA MINING

Paper-CSE-476

Time allowed : 3 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. (a) Define data warehouse ? What are the important differences between a operational database systems and data warehouse ? Explain.
- (b) Comment on the following key features of data warehouse :
 - (i) Subject-oriented
 - (ii) Integrated
 - (iii) Time-variant
 - (iv) Non-Volatile.
2. What do you understand by association rules ? Discuss the mining of single dimensional Boolean Association rules.

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Unit-II

3. What is the difference between supply-driven physical data warehouse and demand-driven virtual data warehouse ? Write a note on virtual data warehouse architecture and discuss its advantages.
4. What is the difference between centralized and distributed data warehouse ? Discuss the issues in designing of distributed data warehouse and discuss the pros and cons of it.

Unit-III

5. What do you understand by Decision Support System (DSS) ? What is the difference between DSS and MIS? Write a detailed note on the use of Data Warehouse in DSS.
6. (a) What do you understand by star schema, snowflake schema and fact constellation schema ? Explain.
(b) Write a detailed note on three-tier data warehouse architecture.

Unit-IV

7. What is neural network ? What do you understand by classification ? What are the important issues in it ? Explain the classification by back propagation.
8. (a) What is Fuzzy logic ? Write a note on the use of Fuzzy logic in data mining.
- (b) What is Genetic Algorithm ? Discuss its use in knowledge discovery.