Roll No. ....

Total Pages : 03

BT-8/D-14   **8809**

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. (a) What are different components of a data warehouse ? Explain with the help of diagram.   7

   (b) Discuss the evolution of OLPT. What are critical features of OLTP system ?   8

2. (a) Discuss data visualization with reference to data mining.   7

   (b) What is Information Retrieval ? What methods are there for information retrieval ?.   8

(1-30) L-8809   P.T.O.

Unit II

3. Write short notes on the following :

   (a) Snowflake schema   8

   (b) Multistage Data Warehouse.   7

4. (a) What are supply-driven physical data warehouse and demand driven virtual data warehouse ?   8

   (b) Explain virtual data warehouse architecture and discuss its advantages.   7

Unit III

5. Explain the following in the context of data warehouse :   15

   (a) Meta data

   (b) Operational data

   (c) Operational database.

6. (a) Explain 4-tier data warehouse architecture. 8

   (b) Explain the OLAP technology for data mining.   7

L-8809   2

Unit IV

7. (a) What is Genetic Algorithm ? Explain its usage in data mining. 7

   (b) Explain Fuzzy Logic in reference to data mining process. 8

8. What is Neural Network ? What do you understand by classification ? What are the important issues in it ? Explain the classification by back propagation. 15