Dec 13 (kuk)

Roll No. ....   **Total Pages : 02**

BT-8/D-13   **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. What do you understand by data warehouse ? Discuss the steps for designing, construction and implementation of Data Warehouse.

2. (a) Differentiate between operational database systems and data warehousing.

   (b) Define Data Mining. Discuss data mining functionalities. Draw a sketch of integration from data warehousing to data mining.

Unit II

3. What is a Virtual Data Warehouse ? What is the need of it ? Discuss its implementation.

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4. What is Distributed Data Warehouse ? What are its advantages and disadvantages ? Write a note on the different issues in the construction of a Distribute Data Warehouse.

Unit III

5. What are the components of Data Warehouse ? Discuss the three-tier architecture of Data Warehouse.

6. (a) What do you understand by Meta Data and Operational Data ? Explain using suitable examples.

   (b) Differentiate between 2-tier architecture and 3-tier architecture of data warehouse.

Unit IV

7. (a) What are the steps of data mining to be followed as the process of knowledge discovery ? Explain.

   (b) What is Genetic Algorithm ? Discuss its use in data mining *i.e.* explain the different operators of GA using suitable examples.

8. What is Neural Network ? Write a note on the use of Neural Network in knowledge recovery.

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