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BT-8/M-19   38009

DATA WAREHOUSING AND DATA MINING
CSE476-E
(Departmental Elective-V)

Time : Three Hours]   [Maximum Marks : 75

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

Unit I

1. (a) Why is data mining important ? What are the issues and challenges in data mining ?   7

   (b) Comment on the following key features of data warehouse : Integrated, Subject-oriented, Non-volatile, Time-variant.   8

2. (a) Different between operational database system and data warehousing.   8

   (b) What are the steps for the data mining process ?   7

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Unit II

3. Explain the following :

    (a)   Distributed data warehouse

    (b)   Centralized data warehouse.   **15**

4. (a)   What is the multidimensional data model ? Explain in detail.   **7**

    (b)   What is a data warehouse ? Discuss the designing, construction and implementation of data warehousing.   **8**

Unit III

5. In the context of data warehouse define the following terms :

    (a)   Meta data

    (b)   Operational data

    (c)   Operational database.   **15**

6. (a)   Explain 3-tire data warehouse architecture with a neat and clear diagram.   **7**

    (b)   What do you understand by decision support system (DSS) ? What are the differences between DSS and MIS ? Explain in detail.   **8**

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Unit IV

7. Write short notes on the following :

   (a) Fuzzy rules

   (b) Genetic algorithms

   (c) Knowledge discovery database (KDD).   **15**

8. How neural networks are used for pattern classification ? Explain the back propagation algorithm.   **15**