

Roll No.

Total Pages : 03

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

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