

Roll No. ....

Printed Pages : 2

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**BT-8 / M-15**

**DATA WAREHOUSING AND DATA MINING**

**Paper-IT-472**

*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) What do you mean by data warehouse ? Discuss in detail about the conceptual architecture of data warehouse. 8
- (b) Explain in detail about the concept of historical evolution of data warehouse. 7
2. (a) Discuss in detail about various types of data and their uses in data warehouse. 8
- (b) How can you design and populate business data in data warehouse ? Explain. 7

**Unit-II**

3. (a) What are data assets ? Explain in detail about the designing and populating business information in data warehouse. 8
- (b) How a user can access the information from business information warehouse ? Explain in detail. 7
4. (a) Discuss in detail about the obstacles in implementing data warehouse. 7
- (b) Explain in detail about the organizational and management of data in data warehouse. 8

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**Unit-III**

5. (a) Explain in detail about the functionality and importance of data mining. 7
- (b) How data mining systems are classified ? Discuss each classification with an example. 8
6. (a) How data warehouse can be implemented ? Discuss various steps in detail with the help of examples. 8
- (b) Explain in detail about various OLAP operations used in data mining. 7

**Unit-IV**

7. (a) Discuss in detail about the concept of data cleaning, data integration and data transformation with a suitable example. 8
- (b) Compare generalization and summarization based characterization of data. 7
8. Explain in detail about the procedure of mining multi-dimensional association rule from relational database and data warehouse. 15

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