

Exam. Code
6028

**8909****BT-8/M-11****DATA WAREHOUSING AND DATA MINING**

Paper : CSE-476

Time : Three Hours]

[Maximum Marks : 75

**Note :** Attempt *five* questions, selecting at least *one* question from each unit.

**UNIT-I**

1. (a) What is Data mining ? Give an example of business application where data mining can be used.  
(b) What is Data warehouse ? How is it different from Database ? 7,8
2. (a) What are the steps of Data mining process ?  
(b) What is Data preprocessing ? Explain. 7,8

**UNIT-II**

3. (a) What is Multidimensional data model ? Explain.  
(b) Compare OLTP and OLAP in a table. 7,8
4. Explain :  
(a) Virtual data warehouse.  
(b) Distributed data warehouse. 7,8

### UNIT-III

5. Define Meta data, Operational data, and Operational database in context of data warehouse. 5,5,5
6. (a) Describe 3-tier and 4-tier data warehouse architectures.  
(b) What are the steps of Data warehouse design ? 8,7

### UNIT-IV

7. (a) What are Association rules and how they are represented ?  
(b) What is Histogram ? Explain. 8,7
8. Write short notes on :  
(a) Neural networks.  
(b) Fuzzy rules. 7,8
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