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Roll No. ....

**H-228**

**B. Tech. EXAMINATION, Dec. 2017**

(Eighth Semester)

(Old Scheme) (Re-appear Only)

(IT)

IT-442

DATA WAREHOUSING AND DATA MINING

*Time : 3 Hours]*

*[Maximum Marks : 100*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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

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P.T.O.

### **Unit I**

1. (a) What is data mart ? What are various types of data mart in data warehousing ?  
10  
(b) Compare a Database system with data warehouse.  
10
2. Name various data warehouse schemas. Explain in detail the star schema. 20

### **Unit II**

3. (a) What is OLAP ? What are various models of it ? Explain. 10  
(b) What is a dimensional table ? Explain with an example. 10
4. (a) Describe logical architecture of data warehouse. 10  
(b) Describe various methods involved in implementation of data warehouse. 10

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### **Unit III**

5. What do you mean by Association ? Explain in brief various association techniques. 20
6. What are various steps involved in data mining ? Explain in detail. 20

### **Unit IV**

7. (a) What is OLAP ? What are various operations of it ? 10  
(b) What is a Decision tree in data mining ? Explain process to create a decision tree. 10
8. Write short notes on the following :  
(a) Data Mining vs. Query tools  
(b) Pattern matching. 20

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