

7E4243

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B.Tech.VII Semester (Main) Examination - 2013

Computer Engg.

7CS2 Data Mining and Ware housing

Time : 3 Hours

Maximum Marks : 80

Min. Passing Marks : 24

**Instructions to Candidates:**

Attempt any **five** questions, selecting **one** question from each **unit**. All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.)

**Unit - I**

1. a) Describe the data mining functionalities? (8)
- b) Discuss the concept of hierarchy generation with detailed analysis (8)

**OR**

1. a) Explain the data cube aggregation (4)
- b) What are the different levels of analysis in data mining (4)
- c) Explain the term missing value and data cleaning (8)

**Unit - II**

2. What are the multilevel association rule? and how to improve efficiency of mining association rules? (16)

**OR**

2. a) What do you understand by measuring dispersion of data. (4)
- b) Discuss the multi dimensional data models. (4)
- c) Discuss the "Apriori algorithm" only (8)

## Unit - III

3. a) i) Explain the ID3 algorithm of decision tree construction. (4)  
 ii) How are the decision tree useful in data mining (4)  
 b) Discuss the hierarchical technique for clustering application (8)

OR

3. Write a short note on

- a) i) Genetic algorithms  
 ii) CLIQUE method (5×2=10)  
 b) Explain the data cardinality in data ware housing (6)

## Unit - IV

4. a) What are the steps of planning a datawarehouse (8)  
 b) Discuss the meta data and state, how it is useful. (8)

OR

4. Explain in brief

- a) Data warehouse Vs Data mart  
 b) Cube grade problem (8+8)

## Unit - V

5. a) Differentiate between ROLAP and MOLAP (6)  
 b) How can we control the aggregation problem and what do you mean by denormalization. (10)

OR

5. a) Explain security issues in data warehousing (8)  
 b) What do you mean by recovery of data warehouse explain its testing and strategy. (8)