

**B.E/B.TECH DEGREE EXAMINATION, NOV/ DEC 2013**

**SEVENTH SEMESTER**

**COMPUTER SCIENCE AND ENGINEERING**

**CS2032/CS 701/ 10144 CSE 32 - DATA WAREHOUSING AND DATA MINING**

**Time: 3 hrs**

**Maximum: 100 marks**

**PART-A (10\*2=20) Answers All Questions**

1. Differentiate MOLAP and ROLAP.
2. List any tools for performing OLAP.
3. What is Meta data?
4. What is ETL process? Give it significance.
5. Differentiate between data characterization and discrimination.
6. Give the need for preprocessing.
7. Define frequent item set.
8. Give samples for binary and multidimensional association rules.
9. How the goodness of cluster is measured?
10. Highlight few applications involving outlier analysis.

**PART-B (5\*16=80)**

11. a. Draw any two multi dimensional schemas suitable for representing weather data and give their advantages and disadvantages. (16) (OR)  
b. Explain the multi tier architecture suitable for evolving a data warehouse with suitable diagram. (16)
12. a. Write shorts notes on the following. i. feature of cognos tool. (8) ii. Multidimensional data model. (8) (OR)  
b. discuss how data warehouse is used in retail and telecommunication industry. (16)
13. a. Write shorts notes on: i. classification of data mining systems. (8)  
ii. data mining task primitives. (8) (OR)

b. Write short notes on various data mining preprocessing tasks. (16)

14. a. Discuss about mining association rule using the apriori algorithms. (16)

(OR)

b. Explain as to how neural networks are used for classification of data. (16)

15. a. Explain any two hierarchal clustering techniques stating their pros and cons. (16)

(OR)

b. Write short notes on: i. DBSCAN (8) ii. Outlier analysis. (8)

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