

No. of Printed Pages : 3

BICS-020

**B.Tech.-VIEP-COMPUTER SCIENCE AND
ENGINEERING (BTCSVI)**

Term-End Examination, 2019

BICS-020 : DATA WAREHOUSING AND MINING

Time : 3 Hours]

[Maximum Marks : 70

**Note : Attempt any seven questions in all. All questions
carry equal marks.**

1. (a) Describe why concept of hierarchies are useful in data mining. [5]
- (b) How do you develop a test plan for data warehouse ? Explain. [5]
2. (a) What is KDD (Knowledge Discovery in Database) ? What are the steps involved in KDD process ? [5]
- (b) What is data mart ? When data mart is appropriate ? [5]
3. What does a Metadata repository contain ? Elaborate. [10]

4. (a) What is ETL (Extraction Transformation Loading) process ? [5]
- (b) Differentiate between the "Star Schema" and the "Snowflake Schema". Which is popular in Data Warehouse Design ? [5]
5. (a) Describe the Backup and Archive process of a Data Warehouse. [5]
- (b) Differentiate between loose coupling and semi-tight coupling. [5]
6. What do you mean by Data Pre-processing ? Explain with the help of example. [10]
7. Discuss data warehouse tuning and testing with an example. [10]
8. Explain about Indexing Techniques used to organize the data in the Data Warehouse. [10]
9. Discuss the application of Data Mining in Telecom industry. [10]
10. Write short notes on **any two** of the following : [2x5=10]
- (a) Hyper Cubes

(b) **Market Basket Analysis**

(c) **Cluster Analysis**

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