

Roll No. 

--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 02

Total No. of Questions : 07

**B.Sc.(IT) (2015 & Onwards) (Sem.-5)  
DATA WAREHOUSING AND MINING**

Subject Code : BSIT-504

M.Code : 74378

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

**SECTION-A****Q1. Answer briefly :**

- a. Define Data Archaeology.
- b. What is Data Warehouse?
- c. What is meant by Data Transformation?
- d. What is Fact Constellation?
- e. Discuss briefly slice and dice operations.
- f. What is an output of Apriori Algorithm?
- g. Compare association mining and correlation analysis.
- h. How are decision trees helpful in classification?
- i. What is cross validation?
- j. Define any clustering algorithm.



**SECTION-B**

- Q2. a. Explain various characteristics of Data Warehouse.
- b. What are various OLAP operations available for development and maintenance of data warehouse? Explain.
- Q3. a. Describe the concept of Data Summarization by taking suitable example.
- b. What is meant by Data-Driven-Exploration of Data Cubes? Explain.
- Q4. Explain the following :
- a. Association rule mining.
- b. Apriori Algorithm.
- Q5. What are different schemas available for Multidimensional Data? Explain.
- Q6. a. Discuss the role of Attribute Selection in Data Classification.
- b. Explain the working of Bootstrap technique.
- Q7. a. Differentiate between Bagging and Boosting.
- b. What is Data Visualization? Explain different methods used for Data Visualization.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**