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Total No. of Pages : 02

Total No. of Questions : 07

**BCA, DEP (Sem.-5)**  
**DATA WAREHOUSING AND MINING**  
Subject Code : BSBC-501  
M.Code : 70628  
Date of Examination : 24-05-2023

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 a student has to attempt any FOUR questions.

**SECTION-A**

**1. Explain briefly :**

- a. What is historical data?
- b. What is the meaning of 'subject oriented' and 'time variant' for Data warehouse?
- c. Define data normalization.
- d. What is advantage of using multidimensional data?
- e. What is false negative rate?
- f. Give an example of indexing in OLAP.
- g. What is precision and accuracy?
- h. What is correlation?
- i. What is cross validation?
- j. How we can visualize the data?

## SECTION-B

2. Discuss the different techniques of data preprocessing with the help of suitable example.
3. Discuss the significance of support, confidence, and lift in market basket analysis. How ARM can help in placing the items in a better manner to increase the sale of the store.
4. What are the limitations of transactional databases? Discuss the different architectures of Datawarehouse.
5. What is a data cube? Discuss the different methods of cube computation.
6. What is the difference between classification and clustering? Give an example of classification which uses the decision tree.
7. Why do we need data mart? Explain the different OLAP operations with the help of suitable examples.

**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.**