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Total No. of Pages : 02

Total No. of Questions : 16

**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**

**Answer briefly :**

1. What is the need for data warehousing?
2. Give two examples to show the need of data cleaning?
3. What is market basket analysis?
4. Define the term Artificial Intelligence?
5. What is the purpose of the Apriori algorithm?
6. Define OLAP?
7. How is clustering different from classification?
8. How is the accuracy of a classifier measured?
9. What is correlation analysis?
10. Give any two examples to show the usefulness of data visualization?

## SECTION-B

11. What role does a data warehouse play in managing storage of data? Explain the structure of a data warehouse?
12. Differentiate between OLAP and OLTP. Discuss the OLAP operations?
13. Explain the various forms in which data can be visualized?
14. Explain the 3-tier architecture of a data warehouse?
15. What is association rule mining? How is mining of multilevel association rules carried out?
16. Explain the following: Cross-validation, Bootstrap, Boosting, and Bagging?

**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.**