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Total No. of Pages: 02

Total No. of Questions: 07

B.Sc. (IT) (2015 & Onwards) (Sem. – 5)

DATA WAREHOUSING AND MINING

M Code: 74378

Subject Code: BSIT-504

Paper ID: [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

1. a) What is Metadata Repository? Why is it required?
 - b) Define support and confidence in Association Rule Mining.
 - c) What is Data Extraction?
 - d) What is a Data Cube?
 - e) What is meant by Outlier? How Outliers are detected using Data Mining?
 - f) Differentiate between Clustering and Classification.
 - g) Define hierarchical clustering.
 - h) What is meant by pruning in a decision tree induction?
 - i) How is predication different from classification?
 - j) Define descriptive model.

SECTION B

2. Differentiate between OLAP and OLTP. Explain different OLAP operations with the help of examples.
3. Explain in detail the three-tier Data Warehouse architecture. How a query is mapped between three tiers? Explain.
4. Explain the steps in Knowledge Discovery in databases.
5. Explain Association Rule Mining with the help of suitable examples.
6. How Decision Trees assist in the process of classification? Explain with the help of an example.
7. Explain the different methods of Data Cleaning and Data Transformation.