

**Total No. of Questions: 07**

**BCA (2011 & Onward) (Sem. – 5)**  
**DATA WAREHOUSING AND MINING**

**M Code: 70628**

**Subject Code: BSBC-501**

**Paper ID: [B1154]**

**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. Briefly answer the following:

- a) Differentiate between operational and informational data stores.
- b) What is multidimensional data? Give two examples.
- c) What is OLAM?
- d) Define Data Mining.
- e) Briefly discuss the Snowflake schema.
- f) Discuss Discovery driven cube.
- g) What is a Decision Tree?
- h) How is the accuracy of a classifier measured?
- i) What are the different types of data used in cluster analysis?
- j) What are the parameters for selecting and using the right data mining technique?

### SECTION B

2. Define Data Warehousing. What is the need for data warehousing? Discuss the structure of a data warehouse.
3. What do you mean by data pre-processing? Explain the various stages in the process of data pre-processing.
4. What is OLAP? Discuss the architecture of OLAP in detail.
5. Explain Association Rule Mining. What are the various algorithms for generating association rules? Discuss with examples.
6. Discuss Bootstrapping, Boosting and Bagging with examples.
7. What is Clustering? Discuss the various clustering algorithms.