Roll No. | | | | | | | | | | | | | **Total No. of Pages : 02**

Total No. of Questions : 07

BCA (2011 & Onward) (Sem.–5)

DATA WAREHOUSING AND MINING

Subject Code : BSBC-501

Paper ID : [B1154]

Time : 3 Hrs. **Max. Marks : 60**

INSTRUCTION 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 Write briefly :

a) What is a Data Mart? How is a data mart different from a data warehouse?

b) What is data cleaning? Why is it important?

c) How AI is used in data warehousing?

d) What are the advantages of data mining?

e) What are the efficient methods of cube computation? Discuss any one in brief.

f) What is Attribute-oriented induction?

g) Distinguish between classification and clustering.

h) What is Prediction? Discuss any prediction technique in brief.

i) What is OLAM? How is it different from OLAP?

j) Define Data Visualization.

SECTION-B

2. What is a Data Warehouse? What are the characteristics of a data warehouse? What is the need for a data warehouse?

3. Define and compare OLAP and OLTP. Discuss the various OLAP operations with examples.

4. Explain the various schemas for multidimensional data model.

5. Elaborate the 3-tier data warehouse architecture.

6. Describe the different classifications of Association rule mining. How is association rules mined from large databases?

7. What are the major requirements of clustering analysis? Briefly discuss any two hierarchical clustering methods with suitable examples.