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**

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 has to attempt any FOUR questions.**

SECTION-A

1. **Write briefly :**

    A) List Characteristics of Data Warehouse.

    B) Why data summarization and Data cleaning is done?

    C) What is Indexing & Querying in OLAP?

    D) What is Attribute- Oriented Induction?

    E) Explain Association Rule Mining.

    F) What are various attribute selection measures?

    G) Why Cross-Validation is done?

    H) Explain the concept of Boosting.

    I) What is Clustering?

    J) Importance of Data Visualization.

SECTION-B

2. What is Data Warehousing and why we need it? Also explain the architecture of Data Warehouse in detail.

3. Explain Star & Snowflake database schema in detail. Also construct a fact table of star schema.

4. Elaborate the concept of discovery driven exploration of Data Warehouse with the help of an example.

5. What is Data Mining and why it is important? Explain Market Basket analysis with the help of an example.

6. Why classification is done? Explain classification by decision trees with the help of an example.

7. Discuss various prediction techniques available. How these techniques are helpful in real life?