

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)

B.C.A. Sem-VI : WINTER : 2021

SUBJECT: DATA WAREHOUSING & DATA MINING

Day : *Tuesday*
Date : *25-01-2022*

W-18798-2021

Time : 02:00 PM-05:00 PM
Max. Marks: 60

N.B.:

- 1) **Q.4 is COMPULSORY.**
- 2) Answer **ANY TWO** questions from Q.1, 2, 3 in Section – I.
- 3) Answer **ANY TWO** questions from Q.5, 6, 7 in Section – II.
- 4) Figures to the right indicate **FULL** marks.
- 5) Answers to both the sections should be written in **SAME** answer books.
- 6) Draw a labeled diagram **WHEREVER** necessary.

SECTION – I

- Q.1** With a neat sketch, explain three tier architecture of a data warehouse. (12)
- Q.2** Illustrate the different schemas for multidimensional data model. Explain merits and demerits of each. (12)
- Q.3** What is significance of OLAP in data warehouse? Describe OLAP operations with necessary diagram and examples. (12)
- Q.4** Write short notes on (Any 3) (12)
- a) Data Marts
 - b) Normalization as a data transformation technique
 - c) Binning methodology
 - d) Data mining task primitives
 - e) Market Basket Analysis

SECTION – II

- Q.5** What is classification? Explain Decision Tree algorithm for classification using appropriate example. (12)
- Q.6** Explain any 2 hierarchical clustering techniques stating their pros and cons. (12)
- Q.7** What are outliers? Discuss the methods adopted for outlier detection. (12)

* * * *