BACHELOR OF COMPUTER APPLICATIONS (C.B.C.S.) (2014 COURSE) **B.C.A. Sem-VI** : **WINTER** : **2021**

SUBJECT: BUSINESS INTELLIGENCE

Time: 02:00 PM-05:00 PM Day: Tuesday **Date:** 11-01-2022 W-11058-2021 Max. Marks: 100

N.B.:

- 1) Attempt any FOUR questions from Section –I and any TWO questions from Section –II.
- 2) Figures to the right indicate FULL marks.
- Answers to both the sections should be written in **SAME** answer book. 3)

SECTION-I

Q.1 Explain Business Intelligence process. **(15)**

Q.2 Describe Association Rule Mining with a suitable example. (15)

Q.3 What is Data Mining? Explain KDD process in detail. (15)

Q.4 Differentiate between OLAP and OLTP. (15)

What is multi-dimensional data model? Explain star schema and snowflake (15) **Q.5** schema of data warehouse with suitable example.

Q.6 Explain Decision Support System in detail. (15)

Q.7 Write short notes on any THREE of the following: (15)

- MOLAP Model a)
- **Data Cleaning Process** b)
- Clustering c)
- d) Informatica BI Tool

SECTION-II

What are the major clustering methods? Explain K- Means methods in detail. **Q.8** (20)

Q.9 Consider following transactional data for XYZ Electronics Pvt. Ltd. **(20)**

T ₁₁	P_1, P_2, P_5
T ₁₂	P_2, P_4
T ₁₃	P_2, P_3
T ₁₄	P_1,P_2,P_4
T ₁₅	P_1, P_3
T ₁₆	P_2, P_3
T ₁₇	P_1, P_3
T ₁₈	P_1, P_2, P_3, P_5
T ₁₉	P_1, P_2, P_3

Write an Apriori algorithm and apply it on above transactional data for min support = 2.

Q.10 a) What is data warehouse? Explain three tier architecture of Data Warehouse. (10)

Explain different users and benefits of data warehouse. (10)