SUPPLEMENTARY BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE) B.C.A. Sem-VI :SUMMER- 2022 SUBJECT : DATA WAREHOUSING & DATA MINING

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Date: 25-08-2022 S-18798-2022 Max. Marks: 60

N.B.:

Day: Thursday

- 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.
- Answers to both the sections should be written in **SAME** answer books.
- 6) Draw a labeled diagram **WHEREVER** necessary.

SECTION - I

- Q.1 Distinguish between:
 - a) OLAP & OLTP

(06)

Time: 10:00 AM-01:00 PM

b) Database & Data Warehouse

(06)

- Q.2 Describe Data Mart. Why is it required? Explain the different types of data (12) marts in detail.
- Q.3 Describe the need for data pre-processing in the process of data mining. (12) Explain various data pre-processing techniques in detail.
- Q.4 Write short notes on (Any 3)

(12)

- a) Concept Hierarchies
- b) OLAP Operations
- c) Support & Confidence
- d) Prediction
- e) Decision Tree

SECTION - II

- Q.5 What is Apriori algorithm to find frequent item sets? Explain with the help of an example. (12)
- Q.6 What is supervised vs unsupervised learning? Discuss K-Nearest neighbor (12) classification algorithm with an example.
- Q.7 What is outlier detection? Explain distance based outlier detection. What are the areas of applications of outlier detection?

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