

MASTER OF COMPUTER APPLICATIONS (CBCS - 2020 COURSE)
M.C.A. Sem-II : WINTER : 2021
SUBJECT: DATA WAREHOUSING & DATA MINING

Day : Friday
Date : 21-01-2022

W-22732-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 60

N.B.:

- 1) **Q.4** from Section – I 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) Draw neat and labeled diagram **WHEREVER** necessary.
- 6) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION – I

- Q.1** What is a data warehouse? Diagrammatically illustrate and discuss the data warehousing architecture. [12]
- Q.2** Discuss data mining as a step in knowledge discovery process and various challenges associated with it. [12]
- Q.3** State the various evaluation criteria's that are essential for classification and prediction methods. [12]
- Q.4** Write short notes on **ANY THREE** of the following: [12]
- a) Meta Data
 - b) Data Cleaning Methods
 - c) Data Normalization
 - d) Apriori Algorithm
 - e) Naïve Bayes Classification

SECTION – II

- Q.5** What is Decision Tree? List and explain the different characteristics of decision tree induction. Explain how decision tree induction algorithm works with an example. [12]
- Q.6** What is Cluster Analysis? Describe the different types of clustering techniques. Explain K-means clustering algorithm with an example. [12]
- Q.7** Explain applications of Data Warehousing and Data Mining in Banking Industry. [12]

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