

CDOE
MASTER OF COMPUTER APPLICATIONS (CBCS-2018 COURSE)
M.C.A. Sem - IV : WINTER :- 2021
SUBJECT: DATA WAREHOUSING & DATA MINING

Day : Monday
Date 14-02-2022

W-21091-2021

Time : 02:00 PM-05:00 PM
Max. Marks: 70

N.B.

- 1) Q. No. 4 From Section-I is **COMPULSORY**.
- 2) Answer any **TWO** question from Q. No. 1, 2, 3, in Section – I.
- 3) Answer any **TWO** questions from Q. No. 5, 6, 7, in section-II.
- 4) All questions carry **EQUAL** marks.
- 5) Both sections should be written in the **SAME** answer books

SECTION - I

- Q. 1** Answer the following (12)
- a) Why does an organization need OLAP?
 - b) Compare Data Warehouse and Operational database.
- Q. 2** Answer the following (12)
- a) Explain the concept of Dimensionality Reduction and Numerosity Reduction.
 - b) Distinguish between Snowflakes and Fact Constellations schema
- Q. 3** Explain the following : (12)
- a) Different issues in Classification and Prediction.
 - b) Apriori algorithm with example
- Q. 4** Write short notes on any **THREE** of the following: (12)
- a) OLAP Cube
 - b) Unsupervised learning
 - c) Data Integration
 - d) Bayesian Belief Network
 - e) Data Discretization

SECTION - II

- Q. 5** Answer the following (12)
- a) Define link based mining with different tasking in link based in web structural mining.
 - b) Define Web usage mining. What are the advantages of pattern analysis in web usage mining
- Q. 6** Answer the following (12)
- a) Define classification. State its importance.
 - b) Naïve Bayesian classification algorithm. Explain it in detail.
- Q. 7** Explain the following (12)
- a) What is clustering? Requirement of clustering in data mining.
 - b) Distinguish between Unsupervised and Supervised learning

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