PAPER ID-410750

Roll No: | | | | | | | | | | | | | |

MCA
(SEM III) THEORY EXAMINATION 2021-22
DATA WAREHOUSING & DATA MINING

Time: 3 Hours ***Total Marks: 100***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x 10 = 20

Qno.	Question	Marks	CO
a.	List down the Key Features of Data Warehouse.	2	1
b.	Define Data Mart.	2	1
c.	What is SMP?	2	2
d.	What is Master-slave processing?	2	2
e.	Briefly explain Association rules.	2	3
f.	Define Data cleaning.	2	3
g.	What is data Generalization?	2	4
h.	List down the various measures of Central Tendency.	2	4
i.	What are the characteristics of OLAP?	2	5
j.	Define Web Mining.	2	5

SECTION B

2. Attempt any *three* of the following:

Qno.	Question	Marks	CO
a.	What do you mean by Data Warehouse? Discuss the key features with suitable examples.	10	1
b.	What is data Warehouse implementation? What are the key considerations that are taken while finalizing the physical warehouse schema design?	10	2
c.	Describe the steps involved in data mining when viewed as a process of knowledge discovery.	10	3
d.	Describe Classification. Briefly Outline the major ideas of Bayesian Classification.	10	4
e.	Describe various OLAP operations with an example.	10	5

SECTION C

3. Attempt any *one* part of the following:

Qno.	Question	Marks	CO
a.	Write a note on Shared disk and Shared nothing architecture.	10	1
b.	What is multidimensional data model? How do we convert tables & spreads sheets to data cubes.	10	1

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4. Attempt any *one* part of the following:

Qno.	Question	Marks	CO
a.	What do you mean by Workload matrix?	10	2
b.	Explain Attribute Relevance Analysis with an example.	10	2

5. Attempt any *one* part of the following:

Qno.	Question	Marks	CO
a.	Describe the basic architecture of data mining.	10	3
b.	Why data preprocessing is required in Data Mining. Explain.	10	3

6. Attempt any *one* part of the following:

Qno.	Question	Marks	CO
a.	What is clustering? List types of clustering. Explain any one approach for clustering.	10	4
b.	Describe CLIQUE algorithm.	10	4

7. Attempt any *one* part of the following:

Qno.	Question	Marks	CO
a.	Write short-notes on: (i) Crawlers (ii) Harvest System	10	5
b.	Explain & Define Markov Model.	10	5

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