Total No. of Questions: 8] [Total No. of Printed Pages: 2]

Roll No

MCA-501 M.C.A. V Semester

Examination, June 2020

Data Warehousing and Mining

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

- 1. a) What is Data Mining? Discuss the major issues in Data mining.
 - b) What is Data Mining functionalities? Explain different types of Data Mining functionality with example. 7
- a) Draw the diagram and explain the architecture of Data Mining system.
 - b) What is Data warehouse? How is it different from an operational database? Explain data marts. 7
- 3. a) Discuss 3 tier data warehouse architecture and explain ROLAP, MOLAP and HOLAP servers.
 - b) Explain the term OLAP. Discuss data cube technology in brief.
- 4. a) Write in details about the key components of data warehouse.
 - b) What is data transformation? Explain the different methods of data transformation.

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5.	a)	Explain the data	discretization	and	concept	hierarchy
		generation.				7

- b) How can we apply data reduction technique? Explain. 7
- 6. a) Explain in detail how we generate association rules from frequent itemsets with the help of an example.
 - b) Describe in detail the Apriori algorithm. List various ways used to improve the efficiency of Apriori algorithm. 7
- 7. a) Discuss the detailed concept of mining multi-dimensional association rules from relational databases.
 - b) What is the difference between clustering and prediction? List out some of the issues regarding clustering and prediction.
- 8. a) Define Clustering. Also mention the various requirements and applications of clustering.
 - b) Write short notes.

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- i) K-means clustering
- ii) K-medoids algorithms
