Seat No.:	Enrolment No.

Subject Code: 3640006

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- IV• EXAMINATION - SUMMER 2017

Date: 06/06/2017

Subject Name: Data Mining Time:10:30 am – 01:00 pm Total Marks: 70			
Inst	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(A) (B)	Define/explain following terms: 1. MOLAP 2. Wave Cluster. 3. Data cleaning 4. Spatial Mining 5. Predictive Model 6. Drill-down operation 7. Naïve Bayesian classification Explain the steps of knowledge discovery in databases?	07
Q.2	(A) (B)	 Explain the architecture of data mining system. List out the difference between OLTP and OLAP. What is market-basket analysis? Explain with example. 	03 04 07
	(B)	OR Explain techniques to improve the efficiency of Apriori algorithm.	07
Q.3	(A) (B)	 What is the use of Regression? Explain Classification by backpropagation Describe the different classifications of Association rule mining. OR	03 04 07
Q.3	(A) (B)	 What is Frequent Pattern Mining? What do you mean by Cluster Analysis? Explain classification by Decision tree induction. 	03 04 07
Q.4	(A) (B)	 What are the requirements of cluster analysis? What are the different types of data used for cluster analysis? Explain density based method of clustering in detail. OR	03 04 07
Q.4	(A) (B)	 Explain text database mining What is Hierarchical method in clustering? Explain the partitioning method of clustering in detail. 	03 04 07
Q.5	(A) (B)	Explain how data mining is used in Banking Industry? Explain Data mining applications for Financial data analysis?	07 07
Q.5	(A) (B)	OR Explain Data mining applications for Retail industry? Explain how data mining is used in Health care analysis?	07 07
