Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- IV• EXAMINATION - SUMMER 2017

Subject Code: 2640005		t Code: 2640005 Date:08/06/201	Date:08/06/2017	
Tir	ne: 1 truction 1.	. Attempt all questions.	70	
Q.1	(a) (b)	Do as directed (i) Define Multi feature Cube. (ii) Explain 4 Key words of Data Warehouse. (iii) Explain in brief Star, Snowflake and Galaxy schema with example. Explain KDD process with its steps.	02 02 03 07	
Q.2	(a) (b)	What is the need for outlier analysis? Discuss various methods of Outlier detection Discuss data cleaning techniques for missing values and Noisy data. OR	07 07	
Q.3	(b) (a) (b)	Explain in detail Dimensionality reduction and Numerosity reduction. What is Apriori Property? Explain Apriori algorithm. Explain the following: i) Concept Hierarchy ii) Self-exp, in-Exp, Path-exp	07 07 04 03	
Q.3	(a) (b)	OR Discuss various techniques used for Improving the Efficiency of Apriori. Explain the following: i) Attribute Removal and Attribute Generalization ii) Data Mart	07 04 03	
Q.4	(a) (b)	What is Data mining? Discuss major issues in data mining. Explain in brief Boosting and Bagging.	07 07	
Q.4	(a) (b)	OR Explain Decision tree algorithm with terms "Tree Induction" and "Tree Pruning". Discuss Holdout, random subsampling, cross validating and the bootstrap techniques for evaluating the Accuracy of a Classifier or Predictor.	07 07	
Q.5	(a) (b)	Explain k-mean algorithm for clustering. (I) Describe application of Data Mining in Financial Data Analysis. (II) Discuss OLAP Servers.	05 05 04	
Q.5	(a) (b)	OR Explain k-medoid algorithm for clustering. (I) Describe application of Data Mining in Intrusion detection. (II) Differentiate Between OLAP and OLTP.	05 05 04	
