GUJARAT TECHNOLOGICAL UNIVERSITY ME – SEMESTER-1 (NEW) EXAMINATION – WINTER 2016

Subject Code: 2712309 Subject Name: DATA MINING Time: 2:30 pm to 5:00 pm Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.			Date:06/01/2017
			Total Marks: 70
Q.1	(a) (b)	What are the steps involved in KDD process? Explain in detail. Explain the architecture of data mining system.	07 07
Q.2	(a) (b)	Differentiate OLAP and OLTP. Explain star schema and snowflake schema. OR	07 07
	(b)	What are the different methods for data reduction?	07
Q.3	(a) (b)	Explain different methods for normalization. What are the major issues in data mining? OR	07 07
Q.3	(a) (b)	What is histogram? What are the different types of histogram? Explain how to classify data mining system.	07 07
Q.4	(a) (b)	Describe the steps of apriory algorithm with example. Explain rule based classification with example. OR	07 07
Q.4	(a) (b)	Explain the techniques to improve apriory algorithm? Explain Bayesian classification in detail.	07 07
Q.5	(a) (b)	Explain linear and nonlinear regression methods for prediction. How data mining can be applicable for fraud detection? OR	07 07
Q.5	(a) (b)	Explain how accuracy of a classifier can be measured. Write a short note on web structure mining.	07 07
