GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII • EXAMINATION – WINTER 2013

Subject Code: 171601 D Subject Name: Data Warehousing and Data Mining			Date: 26-11-2013	
Tiı	Time: 10:30 TO 01:00 Total Marks:		0	
 Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 				
Q.1	(a) (b)	Define Data Mining. Explain various application area of Data Mining Techniques and Knowledge Discovery Process in brief. Explain Data Cube with all OLAP Operations in brief.	07 07	
Q.2	(a)	Explain Following:1. Binning method2. How to handle missing values in Data Set.	07	
	(b)		07	
	(b)	Explain Star, Snowflake, Fact Constellation Schema for Multidimensional Database.	07	
Q.3	(a) (b)	Explain Data Discretizaion and Concept Hierarchy Generation in brief. Explain Market Basket Analysis with it's use and Association Rules in brief. OR	07 07	
Q.3	(a) (b)	Explain Apriori Algorithm for finding Frequent Item-sets. Explain Classification with Decision Tree Induction method.	07 07	
Q.4	(a) (b)	Explain Baye's Theorm and Naïve Bayesian Classification. Differentiate Classification and Clustering. OR	08 06	
Q.4	(a) (b)	Explain Outlier Analysis Techniques. Explain use of Data Mining techniques in Web/Internet Technology.	07 07	
Q.5	(a)	Explain Following terms:1. Information Gain2. Mean, Median, Mode.	07	
	(b)	Explain Linear Regression with example.	07	
Q.5	(a) (b)	 Explain k-means and k-medoids algorithm for clustering. Explain mining in following Databases with example. 1. Temporal Databases 2. Sequence Databases 3. Spatial Databases and Saptiotemporal Databases. 	08 06	
