GUJARAT TECHNOLOGICAL UNIVERSITY ME- SEMESTER II— EXAMINATION – SUMMER 2015

	•	t Code: 2720209 Date:30/05/ 201 t Name: DATA MINING AND DATA WAREHOUSING	15
Ti	me: 2 truction 1.	2:30 PM – 5:00 PM Total Marks: 7	70
	3.	Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain Classification with Decision Tree Induction method. Describe major issues in Data Mining.	07 07
Q.2	(a) (b)	Explain Apriori Algorithm for finding Frequent Item-sets. What is classification and prediction? Explain issues regarding classification and prediction.	07 07
	(b)	OR Explain Bayeøs Theorem and Naïve Bayesian Classification.	07
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Q.3	(a)	What is data cleaning? Discuss various ways of handling missing values during data cleaning.	07
	(b)	Describe the life cycle of data in detail. OR	07
Q.3	(a)	Write short note on Multimedia Mining.	07
	(b)	Write short note on Web Mining.	07
Q.4	(a)	Differentiate i. Discrimination and classification.	07
		i. Discrimination and classification.ii. Characterization and clustering.	
		iii. Classification and prediction.	
	(b)	Explain constraint based association mining with suitable example. OR	07
Q.4	(a)	Explain mining in following Databases with example.	07
		i. Temporal Databases	
		ii. Sequence Databases	
		iii. Spatial Databases and Spatiotemporal Databases.	
	(b)	Explain in detail correlation analysis.	07
Q.5	(a) (b)	Describe any two hierarchical methods of cluster analysis in detail. Describe any two density based methods of cluster analysis in detail.	07 07
Q.5	(a)	OR Describe any two grid based methods of cluster analysis.	07
V	(b)	Explain with suitable example and algorithm, outlier analysis.	07
