GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII • EXAMINATION - SUMMER • 2015

Subject Code: 183103 Subject Name: Business Intelligence & Data Mining			Date:05/05/2015	
Time: 10.30AM-01.00PM Instructions: Total Marks			:: 70	
	1.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Explain the evolution of Database technology. Explain the architecture of data mining system.	07 07	
Q.2	(a) (b)	Discuss the taxonomy of data mining tasks. Discuss the need of human intervention in data mining process. OR	07 07	
	(b)	List out the difference between OLTP and OLAP.	07	
Q.3	(a) (b)	Explain the OLAP operations and multidimensional model. Describe the different type of architectures for integration of a data mining system with database or data warehouse. OR	07 07	
Q.3	(a)	List out four major types of concept hierarchies. Briefly define each type of hierarchy.	07	
	(b)	Define descriptive data mining and predictive data mining. Discuss attribute oriented induction approach to data generalization.	07	
Q.4	(a)	List out Data mining primitives. Discuss any two primitives for specifying a data mining task.	07	
	(b)	Explain frequent item set without candidate generation. OR	07	
Q.4	(a)	Briefly outline the major steps of decision tree classification. Why tree pruning useful in decision tree induction?	07	
	(b)	Explain the following terms. (I) mean (II) median (III) mode (IV)Data's modality (V)midrange (VI) Five numbers summary (VII) Entropy	07	
Q.5	(a) (b)	Discuss the issue regarding classification & prediction. Explain Apriori algorithm with example.	07 07	
Q.5	(a)	OR Explain the naïve Bayesian classifier.	07	
-	(b)	Discuss visualization techniques in data mining.	07	
