GUJARAT TECHNOLOGICAL UNIVERSITY MCA– SEMESTER –IV EXAMINATION –SUMMER-2019

Subject Code:4649307 Date: 21-0 Subject Name: Data Mining and Data Visualization			5-2019	
Time	Time:10.30 am to 1.00 pm Total Mark			
Instructions:				
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	i) What is data mining? What kind of patterns can be mind?ii) Describe Data reduction and Data transformation.	04 03	
	(b)	 Answer the following i) What is Apriori algorithm? ii) Explain frequent item sets and closed item sets. iii) Explain market basket analysis. 	03 02 02	
Q.2	(a)	i) Explain pattern evolution methods with example.	04	
	(b)	ii) Explain Tree pruning? Explain scalability and decision tree induction. Describe Bayes' theorem and also explain about native Bayesian theorem classification.	03 07	
	(b)		07	
Q.3	(a)	adaboost.	04	
		ii).Explain distance measures in algorithmic methods and partitioning methods.	03	
	(b)	Explain BIRCH multiphase hierarchical clustering tree. OR	07	
Q.3	(a)	i) Write down an overview for rule based classification.	04	
	(b)	ii)List out requirements for cluster analysis What are Outliers? Describe types of outliers also explain challenges of outliers detection.	03 07	
Q.4	(a)	i) What is probabilistic hierarchical clustering?	04	
		ii) Discuss rise of HTML5.	03	
	(b)	Describe charting primitives. OR	07	
Q.4	(a)		04	
	(b)	ii) Explain Applications of Data visualization.	03 07	
0.5		-	04	
Q.5	(a)	i) Discuss SVG in detail.ii) Explain basic pie chart.	04	
	(b)		07	
Q.5	(a)	i). What is Acquiring data and visualize data?	04	
	(b)	ii). Explain linear interpolation. What is Google chart? Discuss working with chart animations.	03 07	
