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GUJARAT TECHNOLOGICAL UNIVERSITY M. E SEMESTER – II • EXAMINATION – WINTER • 2013 Subject code: 1720108 Date: 02-01-2014			
Time	: 10.3	ame: Data Mining & Data warehousing 30 am – 01.00 pm Total Marks: 70	
Instr	uctio	ons:	
	1. A	ttempt all questions.	
		Take suitable assumptions wherever necessary.	
	3. F	igures to the right indicate full marks.	
Q.1		Answer the following.	14
	(a)	Define: Knowledge, Information, Data mining	
	(b)	Explain Data warehouse and Data mart.	
	(c)	-	
		Define: Clustering, Outliers.	
		-	
Q.2	(a)	Explain KDD process with function of each step involved in it.	07
	(b)	Why preprocessing is required before any data mining method is applied?	07
		Give name of various data preprocessing methods. OR	
	(b)	Define: characterization, discrimination, association, correlation,	07
		classification, prediction, evolution analysis.	
Q.3	(a)	Explain various OLAP operations performed on Data cube.	07
Q.5	(b)	What do you mean by data cleaning? Explain various data cleaning	07
	(0)	methods in brief.	07
0.2	(a)	•	00
Q.3	(a)	Explain following design methods for multidimensional database: Star schema, Snowflake schema, Fact-constellation schema. Also compare them	08
		with illustration.	
	(b)		06
	(0)	location(country, state, city, street) and time(year, quarter, month, week,	00
		day).	
		uly).	
Q.4	(a)	Compare Apriori and FP-Growth algorithms.	07
~ ··	(b)	How you differentiate association rule mining from classification? Briefly	07
	(0)	explain associative classification.	07
		OR	
Q.4	(a)	-	07
4.	(a)	various methods to mine them.	07
Q.4	(b)	Define: market-basket analysis, transaction dataset, support, confidence,	07
Q.4	(0)	•	07
		candidate item-set, frequent item-set.	
Q.5	(a)	Compare K-mean and K-medoid algorithms with suitable example.	07
Q.3		Explain and compare various attribute selection methods for decision tree	07 07
	(b)	construction.	07
		OR	
05			07
Q.5	(a) (b)	Explain BIRCH and ROCK algorithms for clustering.	07 07
	(b)	What do you mean by Text mining? Explain various issues involved in it.	07