Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. - SEMESTER - VII • EXAMINATION - WINTER 2012

Subje	ect c	ode: 171601 Date: 26/12/2012	2
Subje	ect N	Name: Data Warehousing and Data	
Time	: 10	.30 am - 01.00 pm Total Marks: 70)
Instr	ucti	ons:	
		Attempt any five questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a	Define the term "Data Mining". With the help of a suitable diagram	07
		explain the process of knowledge discovery from databases.	
	(b)		07
		data during the process of data mining.	
0.2	(0)	With the help of a next diagram explain the 2 tier erable at re-of a data	07
Q.2	(a	With the help of a neat diagram explain the 3-tier architecture of a data warehouse.	U/
	(b)		07
		"Operational Database Systems".	
		O'N O'N	
	(b)	Explain the 'Star' and 'Snowfake' schemas of data warehouse.	07
0.2	(0)	Explain the steps of the "Apriori Algorithm" for mining frequent	07
Q.3	(a)	itemsets.	U/
	(b)		07
		discretized.	
		OR	
Q.3	(a)		07
	(b	Decision Tree from a training data set. Explain methods for data normalization.	07
	(D	Explain inchous of data normanization.	U/
Q.4	(a	Write the steps of the k-means clustering algorithm. Also state its	07
		limitations.	
	(b)	Explain how the accuracy of a classifier can be measured.	07
0.4	(-	OR	07
Q.4 Q.4	(a) (b)		07 07
V. -	(D	Explain Emeal Regression using suitable example.	07
Q.5	(a)	Explain the information retrieval methods used in text mining.	07
-	(b	Explain how the topology of a neural network is designed.	07
<u> </u>		OR	c=
Q.5	(a)	•	07
	(b)	pages on a user's search topic. Discuss applications of "Fuzzy Logic".	07
	(D	Discuss applications of Tably Logic.	07
