Seat No.:	Enrolment No.
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## GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject code: 171601 Date:		code: 171601 Date: 26/12/2012	26/12/2012	
_		Name: Data Warehousing and Data .30 am - 01.00 pm Total Marks: 70	)	
Instr				
	1. 2.	Attempt any five questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.		
Q.1	(a	Define the term "Data Mining". With the help of a suitable diagram explain the process of knowledge discovery from databases.	07	
	(b		07	
Q.2	(a	With the help of a neat diagram explain the 3-tier architecture of a data warehouse.	07	
	(b		07	
	(b		07	
Q.3	(a	Explain the steps of the "Apriori Algorithm" for mining frequent itemsets.	07	
	(b	Explain with example how continuous numerical data values can be discretized.	07	
		OR		
Q.3		What is "Information Gain"? Explain the steps required to generate a Decision Tree from a training data set.	07	
	(b	Explain methods for data normalization.	07	
Q.4	(a	) Write the steps of the k-means clustering algorithm. Also state its limitations.	07	
	(b	Explain how the accuracy of a classifier can be measured.  OR	07	
Q.4 Q.4	(a (b	e	07 07	
Q.5	(a (b	•	07 07	
	(D	OR	07	
Q.5	(a		07	
	(b	•	07	

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