Seat N	No.: _	Enrolment No.	
		GUJARAT TECHNOLOGICAL UNIVERSITY MCA SEMESTER—IV – EXAMINATION – SUMMER-2016	
Suhi	ect c	ode: 2640005 Date: 04-06-2016	
v		Name: Data Warehousing & Data Mining	
Time	e: 10	.30a.m. To 01.00p.m. Total Marks: 70	
Instr			
		Attempt all questions.	
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
0.1			-
Q.1	(a)	Define the following terms:0'(i)Fact table(ii)Data Warehouse	/
		(ii) Bitmap indexing (iv) Data cube	
		(iii) Data cube (v) Outlier (vi) Concept description	
		(vi) Linear regression	
	(b)	What are the different types of multidimensional schemas? Explain any one $0'$	7
		schema in detail with proper diagram.	
Q.2	(a)	Explain OLAP operations in the multidimensional data model. 0'	7
	(b)	What do you mean by data transformation? Explain different methods of data $0'$	7
		transformation.	
		OR	
	(b)	What do you mean by data reduction? Explain different strategies for data $0'$ reduction.	7
Q.3	(a)	Explain the major issues in data mining. 0'	7
	(b)	Discuss the variations of the Apriori algorithm to improve the efficiency. $0'$	7
01	(-)	OR	-
Q.3		Draw and explain the data mining architecture. 0' Explain the Apriori algorithm for finding frequent itemsets without candidate 0'	
	(b)	generation.	/
Q.4	(a)	Explain the following as attribute selection measure: 0'	7
		(i) Gini Index	
		(ii) Gain Ratio	
	(b)	State and explain the Bayesian classification.0'	7
~ .		OR	_
Q.4	(a)	Explain the various methods which evaluate the accuracy of a classifier or a $0'$	7
	(b)	predictor.	7
	(b)	Describe and explain the partitioning based clustering method. $0'$	/
Q.5	(a)	Explain the typical requirements of clustering in data mining. 0'	7
	(b)	What all features should a good data mining system include?0'	7
		OR	
Q.5	(a)	Explain the types of data in cluster analysis. 0'	
	(b)	How data mining use in intrusion detection? 0 '	7
