Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

Subj	ect c	BE – SEMESTER VIII • EXAMINATION – SUMMode: 183103 Da	IER - 2013 te: 09-05-2013
•	e: 10	· · · · · · · · · · · · · · · · · · ·	tal Marks: 70
IIISCI	1. 2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain process of Knowledge Discovery. Explain differences between operational database syste and data warehouse	07 ems 07
Q.2	(a) (b)	Explain three tier Data Warehousing Architecture. What is Business Intelligence and How it is related to I Mining.	07 Data 07
	(b)	Explain Different OLAP Operations on Multidimension Data.	onal <b>07</b>
Q.3	(a)	What is classification and prediction? Explain iss	sues <b>07</b>
	(b)	regarding classification and prediction.  Explain Apriori Algorithm in Detail. Find All Frequent I set using Apriori Algorithm.(Take minimum support cour.)	
		TID         ITEMS           T001         I1, I3, I4           T002         I2, I3, I5           T003         I1, I2, I3, I5           T004         I2, I5	
		OR	
Q.3	(a) (b)	Explain Algorithm to find Frequent itemset with generating candidate set. Explain Data Mining Functionalities.	07 07
Q.4	(a)	Explain: Data warehouse, Frequent itemset, Minim	num <b>07</b>
	(b)	support count Write down Applications of Business Intelligence.  OR	07
Q.4 Q.4	(a)	<ul> <li>Answer the following questions:</li> <li>i. How data warehouse is different from database. If they are similar?</li> <li>ii. What are the similarities and differences betwo Concept Description and OLAP.</li> <li>iii. Explain Supervise and unsupervised learning us example.</li> <li>Explain prepruning and postpruining in Decision</li> </ul>	reen
Ų. <del>1</del>	(1)	Induction. Why it is Require?	ucc <b>V</b> /

Q.5	(a) Explain Data Mining Issues Related to Performance &		
	<b>(b)</b>	Diversity of Data types.  Explain Bayesian classification and Rule based	07
		Classification. OR	
Q.5	(a)	Explain linear regression and non linear regression using example.	
	<b>(b)</b>	Write Short note on ARCS.	07
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