Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-II(Old course) • EXAMINATION (Remedial) - WINTER- 2015

Subject Code: 1720108 Date: 14/2			12/2015	
Tin	-	Name: Data Mining & Data Warehousing30 pm to 5:00 pmTotal Marks:	70	
IIISU	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(i) (ii) (iii) (iv)	Answer the following. Differentiate between data, information & knowledge. What are the major issues/challenges in data mining? Compare OLAP and OLTP systems with illustration. What is application of concept hierarchy? Draw concept hierarchy for location(country, state, city, street) and time(year, quarter, month, week, day).	14	
Q.2	(a)	discrimination, association, classification, prediction, clustering, evolution analysis	07	
	(b)	What is KDD? Explain the steps of Knowledge Discovery Process in detail. OR	07	
	(b)	-	07	
Q.3	(a)	What is MOLAP? Explain Three types of Schemas for multidimensional databases.	07	
	(b)	Why preprocessing is required before any data mining method is applied? Explain in brief various data preprocessing methods. OR	07	
Q.3	(a)		07	
	(b)	What do you mean by data cleaning? Explain various data cleaning methods in brief.	07	
Q.4	(a)	Describe A Multilayer Feed-Forward Neural Network.	07	
	(b)	Compare various attribute selection measures for decision tree with suitable example.	07	
Q.4	(a)		07	
	(b)	What is Text Mining and Multimedia Mining? Explain various issues involved in it.	07	
Q.5		Answer the following (Any TWO)	14	
	(a)	Define: Market-basket analysis, Data Mart, Candidate item-set, Frequent item- set, A-priori property, Support & Confidence.		
	(b)	What do you mean by frequent item-set mining for market basket analysis? Explain apriori algorithm for the same with suitable example.		
	(c)	Describe Density-Based Local Outlier Detection.		