

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER-IV • EXAMINATION – SUMMER - 2017

Subject Code: 640005

Date: 08-06-2017

Subject Name: Data Warehousing & Data Mining

Time: 10:30 am - 01:00 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** What is Data Warehousing? Discuss The Difference between OLAP and OLTP **07**
- (b)** Explain the Concept of hierarchy with Diagram **07**
- Q.2 (a)** Explain the following Term in Brief **07**
1. Integrated
 2. Data Mart
 3. Data Transformation
 4. Correlations
 5. Class Comparison
 6. FP
 7. IF-THEN Rules
- (b)** What is Pre-Processing? Why Data is Dirty Discuss How Handle Dirty Data With help of Pre-Processing **07**
- OR**
- (b)** Discuss Followings Short note **07**
1. Three-Tier Data Warehouse architecture
 2. Data Reduction
- Q.3 (a)** Discuss Decision Tree Induction Algorithm **07**
- (b)** What is box-plot Data Analysis Explain With Example with Diagram **07**
- OR**
- Q.3 (a)** Explain in Details A.O.I **07**
- (b)** Discuss in Brief Mean, Median, Inter Quartile Range **07**
- Q.4 (a)** Discuss Apriori Algorithm with Proper Example **07**
- (b)** Discuss linear Regression and Non Linear Regression **07**
- OR**
- Q.4 (a)** What is Classification and Prediction? also Discuss Basics of Surprised and Unsurprised Learning **07**
- (b)** Explain Major Issues in Data Mining **07**
- Q.5 (a)** What is Cluster Analysis? Why Cluster Analysis Important for Data also Discuss Types of Cluster Analysis **07**
- (b)** Discuss Application of Financial Data Analysis **07**

OR

- Q.5 (a)** Explain and give the Important of Outlier analysis of Cluster with different Outlier Techniques **07**
- (b)** Discuss Application of Biological Data Analysis **07**
