

Seat No.: _____

Enrolment No. _____

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

Subject Code: 3640006

Date: 06/06/2017

Subject Name: 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)** Define/explain following terms: **07**
1. MOLAP
 2. Wave Cluster.
 3. Data cleaning
 4. Spatial Mining
 5. Predictive Model
 6. Drill-down operation
 7. Naïve Bayesian classification
- (B)** Explain the steps of knowledge discovery in databases? **07**
- Q.2 (A)** 1. Explain the architecture of data mining system. **03**
2. List out the difference between OLTP and OLAP. **04**
- (B)** What is market-basket analysis? Explain with example. **07**
- OR**
- (B)** Explain techniques to improve the efficiency of Apriori algorithm. **07**
- Q.3 (A)** 1. What is the use of Regression? **03**
2. Explain Classification by backpropagation **04**
- (B)** Describe the different classifications of Association rule mining. **07**
- OR**
- Q.3 (A)** 1. What is Frequent Pattern Mining? **03**
2. What do you mean by Cluster Analysis? **04**
- (B)** Explain classification by Decision tree induction. **07**
- Q.4 (A)** 1. What are the requirements of cluster analysis? **03**
2. What are the different types of data used for cluster analysis? **04**
- (B)** Explain density based method of clustering in detail. **07**
- OR**
- Q.4 (A)** 1. Explain text database mining **03**
2. What is Hierarchical method in clustering? **04**
- (B)** Explain the partitioning method of clustering in detail. **07**
- Q.5 (A)** Explain how data mining is used in Banking Industry? **07**
- (B)** Explain Data mining applications for Financial data analysis? **07**
- OR**
- Q.5 (A)** Explain Data mining applications for Retail industry? **07**
- (B)** Explain how data mining is used in Health care analysis? **07**
