

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA– SEMESTER –IV EXAMINATION –SUMMER-2019**

**Subject Code:3640006****Date: 21-05-2019****Subject Name: Data Mining****Time:10.30 am to 1.00 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)** Explain Following Term. **07**
1. OLAP
  2. OLTP
  3. CHAID Stand For.
  4. Association Mining.
  5. MOLAP
  6. Data Cube
  7. Text Mining
- (b)** Explain KDD diagram in details with figure. **07**
- Q.2 (a)** Explain Data Preprocessing with its various methods. **07**
- (b)** Discuss any three methods for pattern of data to be mined. **07**
- OR**
- (b)** Describe Application of Data Mining. **07**
- Q.3 (a)** What is Market Basket Analysis? Explain with Example. **07**
- (b)** Discuss Apriori Algorithm with example. **07**
- OR**
- Q.3 (a)** Describe Frequent Pattern Mining in details. **07**
- (b)** Discuss Decision Tree Induction Algorithm. **07**
- Q.4 (a)** Explain Bayes Classification Approach with example. **07**
- (b)** Explain DBSCAN Algorithm. **07**
- OR**
- Q.4 (a)** Explain Rule base Classification with example. **07**
- (b)** Discuss KNN Classifier. **07**
- Q.5 (a)** What is Cluster Analysis? Explain K-Mean algorithm with Centroid Based Approach. **07**
- (b)** Discuss Data Mining for Financial Data Analysis. **07**
- OR**
- Q.5 (a)** Explain K-Medoids Method. **07**
- (b)** Describe Time Series and Graph Mining. **07**

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