

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER-IV EXAMINATION – WINTER - 2018

Subject Code: 2640005**Date: 29/11/ 2018****Subject Name: Data Warehousing & 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 the four Key-words of Data Warehousing **07**
 (b) Define Following Terms: Explain in Short **07**
1. Data mart
 2. Noisy Data
 3. Outlier
 4. Data Generalization
 5. Correlation
 6. Liner Regression
 7. Data Cluster
- Q.2** (a) Explain the Process of Data Warehouse Design **07**
 (b) Give the Example with Data of Roll-up, Drill-down, Slice & Dice **07**
- OR**
- (b) Generate the Data Cubes for Student Registration System **07**
- Q.3** (a) Explain Data Integration and Data Transformation for Data Warehousing **07**
 (b) Discuss the Real Application of Frequent Data Item Generation **07**
- OR**
- Q.3** (a) What is Missing Values in Data Warehousing? Also Explain how Handle Missing Values. **07**
 (b) Discuss Real Application of Cluster Analysis **07**
- Q.4** (a) Explain Attribute-Oriented Induction and its Efficient Implementation **07**
 (b) Discuss Closed Itemsets, Association Rules for Mining Frequent Patterns **07**
- OR**
- Q.4** (a) Explain Mining Class Comparison between Different Classes **07**
 (b) How Apriori Algorithm best for Mining Frequent Patterns Discuss with Example **07**
- Q.5** (a) Short note on : Types of Cluster Analysis **07**
 (b) Discuss Application of Biological Data Analysis **07**
- OR**
- Q.5** (a) Explain Partitioning Methods for Cluster Analysis **07**
 (b) Discuss Application of Telecommunication Industry **07**
