

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA – SEMESTER-IV • EXAMINATION – WINTER 2015

Subject Code: 2640005

Date: 09/12/2015

Subject Name: Data Warehousing & Data Mining

Time: 10.30 a.m. To 01.00 p.m.

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)** [1.] Define Data Warehousing. And explain the key Features of Data Warehousing. **05**
[2.] Explain terms (1.) ROLAP (2.) MOLAP **02**
(b) Compare between OLTP & OLAP. **07**
- Q.2 (a)** Write short note on Metadata Repository **07**
(b) Discuss issues to consider during data integration. **07**
- OR**
- (b)** Explain How Interval Merging by x^2 Analysis help in data Processing. **07**
- Q.3 (a)** List and describe the primitives for specifying a data mining task. **07**
(b) Write short note on From Association Analysis to Correlation Analysis. **07**
- OR**
- Q.3 (a)** Write short note on Attribute-Oriented Induction. **07**
(b) Is there any relation between data warehouse and database? Justify your answer in details. And explain how they are similar? **07**
- Q.4 (a)** What is Bayes' theorem? Briefly discusses the major ideas of Naïve Bayesian classification. **07**
(b) What is boosting? How it may improve the accuracy of decision tree induction. **07**
- OR**
- Q.4 (a)** How Predictor Error Measures work in data mining explains with example? **07**
(b) What is bagging? How it may improve the accuracy of decision tree induction. **07**
- Q.5 (a)** List all categorization of major clustering methods and explain any three in detail. **07**
(b) Write short note on the k-Means Method with example. **07**
- OR**
- Q.5 (a)** Why Data Mining Required for Biological Data Analysis? **07**
(b) How to Choose a Data Mining System? **07**
