

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER—III—EXAMINATION –WINTER-2017

Subject code: 3630011

Date: 06-01-2018

Subject Name: Data Warehousing

Time: 10:30 am to 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) Answer the followings: 07**
1. Define data warehouse.
 2. What are the various data sources for the data warehouse?
 3. Define data cube.
 4. Explain concept hierarchy.
 5. Define the structure data.
 6. Define the fact table.
 7. Define metadata.
- (b) Draw and explain the data warehouse architecture. 07**
- Q.2 (a) Explain the various schematic representations in multidimensional model. 07**
- (b) Differentiate between the OLTP and OLAP in details. 07**
- OR**
- (b) Explain the OLAP operations in multidimensional model. 07**
- Q.3 (a) Explain the granularity in Data Warehouse 07**
- (b) Explain how to manage reference tables in a data warehouse. Explain with suitable example. 07**
- OR**
- Q.3 (a) Explain the Dual Levels of Granularity. 07**
- (b) What is independent data mart? How to build independent data marts. 07**
- Q.4 (a) Explain the data warehouse as a basis for EIS. 07**
- (b) Explain the A Data-Driven Development Methodology. 07**
- OR**
- Q.4 (a) Write a short note on: Executive Information System (EIS). 07**
- (b) Write a short note on: Indexing the data warehouse. 07**
- Q.5 (a) Explain the role of data warehouse in a Retail Personalization System. 07**
- (b) Explain the different classes of Operational Data Store (ODS). 07**
- OR**
- Q.5 (a) What are the parameters or things to be consider while moving data from the web to the data warehouse? 07**
- (b) Explain how to Fitting the Unstructured and Structured Environments Together. 07**
