

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA SEMESTER—III—EXAMINATION –WINTER-2016

Subject code: 3630011

Date:09/01/2017

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 mart.
2. List out the merits of data warehouse.
3. What are the characteristics of data warehouse?
4. Define unstructured data warehouse.
5. What types of processing take place in a data warehouse?
6. Every data structure in the data warehouse contains the time element. Why?
7. What are the various data sources for the data warehouse?

(b) Draw and explain the data warehouse architecture. 07

Q.2 (a) Define data warehouse and explain the different data models. 07

(b) Why is it important to store multiple types of data in the data warehouse? 07
Give examples of some non-structured data likely to be found in the data warehouse of a health management organization (HMO).

OR

(b) Write a short note on: Granularity in Data Warehouse. 07

Q.3 (a) Write a short note on: Metadata repository. 07

(b) Explain the design and construction of a data warehouse. 07

OR

Q.3 (a) Write a short note on: Indexing the data warehouse. 07

(b) Give the differences between the OLTP and OLAP in details. 07

Q.4 (a) Explain the OLAP operations in multidimensional model. 07

(b) Discuss and describe the various schematic representations in 07
multidimensional model.

OR

Q.4 (a) What are the complexity of transformation and integration in data 07
warehouse?

(b) Explain the role of data warehouse in a Retail Personalization System. 07

Q.5 (a) Explain the drill-down analysis in EIS. 07

(b) Explain the A Data-Driven Development Methodology. 07

OR

Q.5 (a) Why keeping only summary data in EIS? Explain in detail. 07

(b) To what extent has the midlevel model of the subject areas been 07
created? Is there a relationship between the different midlevel models?
