Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA SEMESTER—III–EXAMINATION –SUMMER-2017

Subject code: 3630011   **Date: 09/06/2017**
Subject Name: Data Warehousing
Time: 02:30 PM – 05:00 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)**	Expand following abbreviations	**07**

	1. OLAP	2. DDDM	3. SQL	4. SOM
	5. ODS	6. VLDB	7. OLTP	

	(b)	Answer the Following questions:	
		1. What is Metadata?	**01**
		2. What is Dimension Table?	**02**
		3. What are the stages of Data-warehousing?	**02**
		4. What is Data mining?	**02**
Q.2	**(a)**	Why data processing is an important issue in data warehousing? What are the salient features of Data Warehouse?	**07**
	(b)	What is Business Intelligence? And how this is related with Data Warehousing?	**07**

OR

	(b)	**1.** What is the difference between OLTP and OLAP?	**05**
		2. What is Data Mart?	**02**
Q.3	**(a)**	What are the steps of building Data Warehouse?	**07**
	(b)	What is Zachman framework? Discuss direct and indirect access of data in data warehouse with respect to framework.	**07**

OR

Q.3	**(a)**	What is ETL? Define any five tools which are available for ETL.	**07**
	(b)	What is the difference between ER Modeling and Dimensional Modeling?	**07**
Q.4	**(a)**	What is SCD? How many types of SCDs are there define with example.	**07**
	(b)	Describe Executive Information System (EIS) with its potential. What is the application of Drill-down analysis?	**07**

OR

Q.4	**(a)**	**I.** Normalization and De-normalization		**04**
		II. Mid-Level Data Model		**03**
	(b)	**I.** Multi-Dimensional Model		**04**
		II. Unstructured Data Warehouse		**03**
Q.5	**(a)**	Explain Data Driven Development Methodology.		**07**
	(b)	Elucidate Granularity in Data Warehouse		**07**

OR

Q.5	**(a)**	Describe Snowflake structures		**06**
	(b)	Explain the Three-Tier Architecture of Data Warehouse		**08**

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