Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA Integrated - SEMESTER– VII- EXAMINATION – WINTER 2018

Subject Code: 4470622   **Date: 22-11-2018**
Subject Name: Data Warehousing
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)**	Answer the following	**07**
		1. ETL stands for_____.	
		2. Define metadata.	
		3. What is Exploration Warehouse?	
		4. Define term: de-normalization	
		5. Explain concept hierarchy	
		6. Define the structure data.	
		7. ODS stands for_____.	
	(b)	Draw and explain the data warehouse architecture	**07**
Q.2	**(a)**	Differences between operational database systems and data warehouses.	**07**
	(b)	Define data warehouse and explain the different data models.	**07**
		OR	
	(b)	Why we need to build data mart? List the advantages and disadvantages of data mart	**07**
Q.3	**(a)**	What is the difference between ER Modeling and Dimensional Modeling?	**07**
	(b)	What is a snapshot? Explain various triggers of a snapshot in brief.	**07**
		OR	
Q.3	**(a)**	What is meta data? How to manage reference tables in a data warehouse?	**07**
	(b)	Explain in brief the feedback loop techniques for deciding the levels of granularity in a data warehouse.	**07**
Q.4	**(a)**	Explain the relation between EIS and data warehouse in detail.	**07**
	(b)	What do you mean by contextual information? Explain its types and state their importance in the context of data warehousing environment.	**07**
		OR	
Q.4	**(a)**	Explain the different OLAP operation with suitable examples.	**07**
	(b)	Explain the process of relating the structured and unstructured environments of data warehouse.	**07**
Q.5	**(a)**	What are the parameters to be consider while moving data from the web to the data warehouse?	**07**
	(b)	Explain Data Driven Development Methodology.	**07**
		OR	
Q.5	**(a)**	How is unstructured data organized in a data warehouse? Explain the process of managing the volume of data in an unstructured data warehouse.	**07**
	(b)	What do you mean by independent data mart? State its advantages and disadvantages.	**07**

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