Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER VII- EXAMINATION –WINTER-2022

Subject Code: 4470622   **Date: 04/01/2023**
Subject Name: Data Warehousing
Time: 02:30 PM TO 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)**	Explain need of Data Warehousing with suitable example? Write any three differences between traditional DBMS and Data Warehousing.	**07**
	(b)	1. Explain any four characteristics of Date warehouse.	**04**
		2. Write any three issues and benefits of Data warehouse.	**03**
Q.2	**(a)**	What do you mean by data homogeneity and heterogeneity? Explain with suitable example.	**07**
	(b)	What do you mean by Data model? Explain mid level and physical level data model with example.	**07**
		OR	
	(b)	Explain the need and techniques used for Data transformation and Data integration.	**07**
Q.3	**(a)**	What do you mean by indexing? Explain how data warehouse is different than multidimensional DBMS?	**07**
	(b)	1. Write any four differences between data mart and data warehouse.	**04**
		2. Write short note on Meta data management.	**03**
		OR	
Q.3	**(a)**	1. What are issues involved while loading data in data warehouse?	**04**
		2. Explain three types of contextual information used in data warehouse.	**03**
	(b)	What is the role of programmer and designer in data placement? What is the need of data locking?	**07**
Q.4	**(a)**	1. Write any three differences between OLAP and OLTP.	**03**
		2. Explain any four OLAP operations with example.	**04**
	(b)	What is Executive Information system (EIS)? Explain its potentials and Applications.	**07**
		OR	
Q.4	**(a)**	Explain two tired data warehouse model in detail using suitable diagram.	**07**
	(b)	Explain detailed VS summarized data in EIS using suitable example.	**07**
Q.5	**(a)**	How does a snowflake schema differ from a star schema? Name two advantages and two disadvantages of the snowflake schema.	**07**
	(b)	What do you mean by independent Data mart? Explain its advantages and disadvantages.	**07**
		OR	
Q.5	**(a)**	What do you mean by operational data store? How its provide flow between data warehouse and web?	**07**
	(b)	1. Explain dimension and fact table with example.	**04**
		2. Explain star schema with suitable example.	**03**

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