Seat No.: _____        Enrolment No._____

# GUJARAT TECHNOLOGICAL UNIVERSITY
## MCA Integrated - SEMESTER–VII - EXAMINATION-SUMMER 2018

**Subject Code: 4470622**                                **Date:07/05/2018**

**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)** | Differentiate between Primitive data and derived data. | **07** |
| | **(b)** | What do you mean by data granularity? Explain the concerns of granularity in a data warehouse. | **07** |
| **Q.2** | **(a)** | What is multidimensional model? Explain the star and snowflake structures in detail. | **07** |
| | **(b)** | Write a short note on partitioning of data in a data warehouse. | **07** |
| | | **OR** | |
| | **(b)** | What is data warehouse? Explain the need for building a data warehouse. | **07** |
| **Q.3** | **(a)** | Explain the issues related to placement of operational data into the data warehouse. | **07** |
| | **(b)** | Explain in brief the feedback loop techniques for deciding the levels of granularity in a data warehouse. | **07** |
| | | **OR** | |
| **Q.3** | **(a)** | What are profile records? Explain the concept of creating multiple profile records along with appropriate example. | **07** |
| | **(b)** | Explain the concepts of variable-length data, lock management, index-only processing and fast restore in the context of data warehouse. | **07** |
| **Q.4** | **(a)** | What is EIS? State the uses of EIS. | **07** |
| | **(b)** | Answer the following : | |
| | | i.   Differentiate between structured and unstructured data. | **03** |
| | | ii.  Explain the terms "stop word" and "stem" along with appropriate example. | **04** |
| | | **OR** | |
| **Q.4** | **(a)** | Explain the relation between EIS and data warehouse in detail. | **07** |
| | **(b)** | Explain the process of relating the structured and unstructured environments of data warehouse. | **07** |
| **Q.5** | **(a)** | Explain the terms "Exploration Warehouse" and "Data Mining Warehouse" in detail. | **07** |
| | **(b)** | Answer the following: | |
| | | i.   What is ETL? State the varieties of ETL software. | **04** |
| | | ii.  Differentiate between ETL and ELT. | **03** |
| | | **OR** | |
| **Q.5** | **(a)** | What do you mean by independent data mart? State its advantages and disadvantages. | **07** |
| | **(b)** | Write a short note on midlevel data model. | **07** |

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