

**GUJARAT TECHNOLOGICAL UNIVERSITY****MCA Integrated- SEMESTER– VII EXAMINATION – WINTER 2019****Subject Code: 4470622****Date: 20/11/2019****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) 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 various types of contextual information and their importance in the data warehouse environment **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 “granularity manager” and “ODS”. Explain their importance in the interaction between the web and data warehouse environments. **07**  
 (b) Answer the following: **07**  
 i. What is ETL? State the varieties of ETL software.  
 ii. Differentiate between ETL and ELT.
- 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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