

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA INTEGRATED– SEMESTER VII- EXAMINATION –SUMMER-2022**

**Subject Code: 4470622****Date: 06/06/2022****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) Write a short note on architected environment **07**  
(b) Write a short note on partitioning of data in a data warehouse **07**
- Q.2** (a) What is data warehouse? Explain the salient features of data warehouse in brief **07**  
(b) Differentiate between Primitive data and derived data. **07**
- OR**
- (b) What do you mean by data granularity? Explain the concerns of granularity in a data warehouse. **07**
- Q.3** (a) Explain the issues related to placement of operational data into the data warehouse **07**  
(b) Explain various data structures found in a data warehouse in detail **07**
- OR**
- Q.3** (a) What is EIS? State the uses of EIS. **07**  
(b) Write a short note on midlevel data model **07**
- Q.4** (a) What are profile records? Explain the concept of creating multiple profile records along with appropriate example. **07**  
(b) Explain the concept of direct operational access of data warehouse data along with appropriate example **07**
- OR**
- Q.4** (a) What is a multidimensional DBMS? Compare multidimensional DBMS and data warehouse. **07**  
(b) What is multidimensional model? Explain the star and snowflake structures in detail **07**
- Q.5** (a) What do you mean by independent data mart? State its advantages and disadvantages **07**  
(b) Explain the issues that may arise out of an effort to match structured and unstructured data based on text. **07**
- OR**
- Q.5** (a) Explain two-tiered data warehouse in detail **07**  
(b) What is data visualization? Explain structured and unstructured data visualization in brief. **07**

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