Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MBA - SEMESTER–III • EXAMINATION – SUMMER • 2014

Subject Code: 2830401   **Date: 29-05-2014**
Subject Name: Database Management (DM)
Time: 14:30 pm – 17:30 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)** What is RDBMS? What are the advantages gained by the adoption of the **07** standardized relational language?

(b) What do you understand by relationship? Explain in brief the three types of **07** relationship degrees and give an example of each.

Q.2 **(a)** Explain Database Management System. Also discuss advantages of database **07** approach.

(b) Explain in detail Client/Server database architecture and its advantages. **07**

OR

(b) Explain triggers and routines. Discuss in brief the advantages of routines. **07**

Q.3 **(a)** Explain Normalization in detail. How do functional dependencies affect **07** Normalization?

(b) Differentiate between Primary Key & Foreign Key with example. **07**

OR

Q.3 **(a)** Explain the role of SQL in the Database Architecture. **07**
(b) State the reason for entity clustering. Specify constraints in **07** Supertype/Subtype relationships.

Q.4 **(a)** Explain DDL and DML with proper syntax. **07**
(b) Write short notes on: Network Model & Hierarchical Model. **07**

OR

Q.4 **(a)** Write a short note on Attributes. **07**
(b) What is join? Explain in brief the various types of joins. **07**

Q.5 **(a)** Draw and explain different Transaction State. **07**
(b) What is database? List the major components in a database system **07** environment.

OR

Q.5 **(a)** Write a short note on Entity. **07**
(b) Describe six categories of middleware. **07**

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