

GUJARAT TECHNOLOGICAL UNIVERSITY
MBA – SEMESTER 3– • EXAMINATION – WINTER 2015**Subject Code:2830401****Date: 03/12/2015****Subject Name: Database Management****Time: 10.30 AM to 01.30 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

6**Q.1 (a)** Entity is a

1. A. Object of relation B. Present working model
C. Thing in real world D. Model of relation

A relational database consists of a collection of

2. A. Tables B. Fields
C. Records D. Keys

Which one of the following is used to define the structure of the relation, deleting relations and relating schemas?

3. A. DML(Data Manipulation Language) B. DDL(Data Definition Language)
C. Query D. Relational Schema

Which one of the following provides the ability to query information from the database and to insert tuples into, delete tuples from, and modify tuples in the database?

4. A. DML(Data Manipulation Language) B. DDL(Data Definition Language)
C. Query D. Relational Schema

The entity set person is classified as student and employee .This process is called

5. A. Generalization B. Specialization
C. Inheritance D. Constraint generalization

Which of the following is not modification of database

6. A. Deletion B. Insertion
C. Sorting D. Updating

Q.1 (b) Define:

1. Entity
2. Referential Integrity
3. Candidate Key
4. Meta data

04**Q.1 (c)** Explain Multitier Client/Server Databases**04**

- Q.2 (a) Explain Advantages of Database Management System in detail. **07**
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- (b) Explain Working of Two tier client/server database architecture with reference to an Educational Institution. **07**
- OR**
- (b) Clearly define the ER diagram for database of Paper manufacturing company with cardinality ratio. **07**
- Q.3 (a) Explain Insert, Delete and Update command in SQL and give example for every command. **07**
(b) Write down the steps in building the data model by using E-R Diagram Approach. **07**
- OR**
- Q.3 (a) Explain TCL and DQL with proper syntax **07**
(b) Explain SQL and How it is used to create and edit database. **07**
- Q.4 (a) Explain base table and virtual table. Discuss Dynamic view with Pros and Cons. **07**
(b) Describe the JOIN operation. What does it accomplish? Explain with Example. **07**
- OR**
- Q.4 (a) Write Short note on **07**
1. Network model
2. Hierarchical Model
(b) Who is DBA? Explain the functions of DBA in Automobile parts manufacturing company. **07**
- Q.5 Develop a Database application for Stationary Supplier by considering Software development life cycle approach. **14**
- OR**
- Q.5 Develop an E-R diagram to keep record of the patients admitted to the hospital. **14**
