

## GUJARAT TECHNOLOGICAL UNIVERSITY

### MBA - SEMESTER-III • EXAMINATION – SUMMER • 2015

**Subject Code: 2830401**

**Date: 01-06-2015**

**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 client/server based Database? Discuss the components of client/ server computing **07**
- (b) Explain the use of any three aggregate functions of SQL with an example for each **07**
- Q.2** (a) What is the difference between a database schema and a database instances? **07**
- (b) Explain DDL with Statements. **07**
- OR**
- (b) What are integrity constraints? Discuss different types of integrity constraints. **07**
- Q.3** (a) Define a data manipulation language. Write a syntax for following and give an example for each. **07**
- (i) Select Statement, (ii) Update Statement, (iii) Delete Statement, (iv) Insert Statement
- (b) Describe three main type of TCL Statements. **07**
- OR**
- Q.3** (a) Discuss main difference between Relational database Management system and Object oriented database management system. **07**
- (b) Write a note on Basic Database Models. **07**
- Q.4** (a) Explain Relationships and Relationship sets of E-R Diagram. **07**
- (b) What is the Difference Between File System and DBMS? Explain the Benefits of DBMS. **07**
- OR**
- Q.4** (a) Define different keys used for construction of E-R Diagram. **07**
- (b) Explain Two and Three tier architecture for DBMS. **07**
- Q.5** (a) Explain any five application areas of Database management system. **07**
- (b) Explain the conceptual database design with E-R Diagram. **07**
- OR**
- Q.5** (a) Explain the People who deal with Database Management System. **07**
- (b) What is Middleware? Explain Six Categories of Middleware. **07**

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