

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**MBA - SEMESTER-III • EXAMINATION – WINTER • 2014**

**Subject Code: 2830401**

**Date: 09-12-2014**

**Subject Name: Database Management (DM)**

**Time: 10:30 am - 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.

- Q.1** (a) Define RDBMS and also explain six potential benefits of standardized relational language. **07**  
(b) List the major components of the database system environment. **07**
- Q.2** (a) Describe SDLC for database development process and also discuss the alternative Information System development approaches. **07**  
(b) Compare and contrast the following terms: **07**  
a) base table; view  
b) dynamic view; materialized view
- OR**
- (b) Define join. Explain in brief the various types of joins. **07**
- Q.3** (a) Discuss degree of relationships. Explain Unary, Binary and Ternary relationships in detail. **07**  
(b) Write a short note on attribute inheritance. **07**
- OR**
- Q.3** (a) Explain cardinality constraints. List different types of cardinality constraints, and draw an example of each. **07**  
(b) Briefly explain steps involved in transforming Entity relationships diagram into relations. **07**
- Q.4** (a) Explain seven potential benefits of the database approach over conventional file systems. **07**  
(b) Explain key components of Information System Architecture and also discuss importance of ISA in the creation of the database. **07**
- OR**
- Q.4** (a) Write a short note on Normalization. **07**  
(b) Distinguish between primary key and foreign key. Explain Integrity constraints in detail. **07**
- Q.5** (a) Discuss the three –schema architecture for database development. **07**  
(b) Explain the INSERT and UPDATE command in SQL with examples. **07**
- OR**
- Q.5** (a) Distinguish between Data, Information and Metadata. **07**  
(b) Discuss the COMMIT and ROLLBACK command in SQL with examples. **07**

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