Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MBA – SEMESTER – 3 • EXAMINATION • WINTER • 2016

Subject Code: 2830401   **Date: 03/01/2017**

Subject Name: Database Management (DM)

Time: 02:30 pm - 05:30 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 three-schema architecture for database development? Discuss the difference between user views, a conceptual schema, and an internal schema as different views of the same database.	**07**
	(b)	Explain data, information and metadata with examples.	**07**
Q.2	**(a)**	Differentiate between attribute, entity and entity instance. Explain the different types of attributes with examples.	**07**
	(b)	Discuss the COMMIT and ROLLBACK command in SQL with examples.	**07**

OR

	(b)	Explain DDL, DML and DCL in detail.	**07**
Q.3	**(a)**	Discuss different types of databases and parameters affecting their implementation.	**07**
	(b)	What are the special guidelines for naming relationships?	**07**

OR

Q.3	**(a)**	Explain Attribute inheritance in detail and also discuss Generalization & Specialization rule.	**07**
	(b)	What is client/server architecture? List major advantages of the three-tier architecture compared to other approaches.	**07**
Q.4	**(a)**	Define join. Explain in brief the various types of joins.	**07**
	(b)	Explain cardinality constraints. List different types of cardinality constraints, and draw an example of each.	**07**

OR

Q.4	**(a)**	Discuss degree of relationships. Explain Unary, Binary and Ternary relationships in detail.	**07**
	(b)	What is the difference between base table and virtual table? Discuss pros and cons of using dynamic views.	**07**
Q.5	**(a)**	Briefly describe problems that often arise in merging relation and common techniques for addressing those problems.	**07**
	(b)	Explain relational database management system and also discuss the advantages gained by the adoption of the standardized relational language.	**07**

OR

Q.5	**(a)**	Define Referential Integrity Constraints. Explain Insert, Delete, Update anomalies with example.	**07**
	(b)	Compare SDLC with RAD and Agile software development approach.	**07**

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