GUJARAT TECHNOLOGICAL UNVERSITY
MBA INTEGRATED - SEMESTER– II EXAMINATION – WINTER 2019

Subject Code: 2527107   **Date: 21/11/2019**
Subject Name: Database Management System
Time: 02:30PM to 05:30PM   **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)**	Discuss the characteristics of Data in Database Management System.	**07**
	(b)	Describe in detail various components of Database Management System.	**07**
Q.2	**(a)**	Discuss in brief Data Dictionary. Describe various types of users of DBMS.	**07**
	(b)	Define Data Abstraction. Differentiate between logical and physical data interdependence.	**07**
		OR	
	(b)	Discuss advantages of using DBMS against the File Management System.	**07**
Q.3	**(a)**	Define Entity. Discuss various types of entity with suitable example.	**07**
	(b)	Discuss various forms of relationships in database in detail.	**07**
		OR	
Q.3	**(a)**	Discuss various models of database with appropriate examples.	**07**
	(b)	Discuss various symbols used to draw E-R diagram with explanation.	**07**
Q.4	**(a)**	Discuss Codd's rules for Database Management System.	**07**
	(b)	Define Data integrity. Discuss various integrity constraints of DBMS.	**07**
		OR	
Q.4	**(a)**	Discuss the process of Normalization and explain BCNF with example.	**07**
	(b)	Discuss the concept of foreign key and primary keys in DBMS with suitable example.	**07**
Q.5	**(a)**	Discuss the functions of SQL- ROLLBACK, COMMIT, SAVEPOINT	**07**
	(b)	Define Views. Discuss the benefits of generating views in DBMS.	**07**
		OR	
Q.5	**(a)**	Define SQL. Discuss various types of languages available in SQL.	**07**
	(b)	Discuss the role of Data Warehouse for online retailer.	**07**

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