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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER– VII (New) EXAMINATION – WINTER 2019

Subject Code: 2170714 **Date: 05/12/2019**

Subject Name: Distributed DBMS

Time: 10:30 AM TO 01:00 PM **Total Marks: 70**

Instructions:

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

			MARKS
Q.1	**(a)**	Explain Complicating factors in distributed Database.	**03**
	(b)	Define Normalization. How anomalies can be eliminated with Normalization?	**04**
	(c)	Explain Client/Server Database architecture.	**07**
Q.2	**(a)**	Explain Horizontal Fragmentation.	**03**
	(b)	Explain pull-only, push-only and hybrid Data Delivery Modes.	**04**
	(c)	Explain Top Down Design Process for Distributed Database.	**07**
		OR	
	(c)	Define Distributed Database System. What is transparency in DDBMS? Explain Layers of transparency in DDBMS.	**07**
Q.3	**(a)**	Explain Characterization of Query Processors.	**03**
	(b)	Explain Discretionary Access Control.	**04**
	(c)	Explain View management. How it is carried out in centralized and distributed DBMS?	**07**
		OR	
Q.3	**(a)**	Explain Cost Function of Query Optimization.	**03**
	(b)	Explain layers of Query processing.	**04**
	(c)	What is authorization control? How to imply authorization control in centralized and distributed environment.	**07**
Q.4	**(a)**	Explain ACID Property of Transaction.	**03**
	(b)	Explain Type of Transactions.	**04**
	(c)	Explain Centralized 2PL for distributed DBMS environment.	**07**
		OR	
Q.4	**(a)**	Explain Multiple Granularities.	**03**
	(b)	Explain classification of concurrency control algorithm in distributed database.	**04**
	(c)	Explain optimistic concurrency control algorithms.	**07**
Q.5	**(a)**	Explain Transaction Failures in Distributed DBMS.	**03**
	(b)	Define Reliability and Availability.	**04**
	(c)	Explain Deadlock Avoidance Techniques.	**07**
		OR	
Q.5	**(a)**	Explain Fuzzy Check Points.	**03**
	(b)	Explain terms: Cascading Abort, Dirty Read, Fuzzy Read, and Conflict Equivalence.	**04**
	(c)	Write a Short note on: Shadow Paging.	**07**

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