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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER– VII (New) EXAMINATION – WINTE
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Sub	ject Code: 2170714	Date: 05/12/2019

Subject Name: I	Distributed	DBMS
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Time: 10:30 AM TO 01:00 PM Total 1	Marks: 7	/U
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Instructions:

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J	l. A	ttemp	t all	ques	tions.

- Make suitable assumptions wherever necessary.
 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	04
		with Normalization?	
	(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)		04
	(c)	Explain View management. How it is carried out in centralized	07
		and distributed DBMS?	
		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	07
		control in centralized and distributed environment.	
Q.4	(a)	Explain ACID Property of Transaction.	03
	(b)		04 07
	(c)	Explain Centralized 2PL for distributed DBMS environment. OR	07
Q.4	(a)	Explain Multiple Granularities.	03
	(b)	Explain classification of concurrency control algorithm in	04
		distributed database.	
	(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)		04
		Conflict Equivalence.	
	(c)	Write a Short note on: Shadow Paging.	07

