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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VII (OLD) EXAMINATION - SUMMER 2019

Subject Code: 171602 Da	te: 27/05/2019
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Subject Name: Distributed Database Application & System

Time: 02:30 PM TO 05:00 PM **Total Marks: 70** 

**Instructions:** 

1. Attempt all questions.

DBMS?

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Which process of DDBS design is used when we wanted to design DDBS from	07
	<b>(b)</b>	scratch? Draw and explain that process.  What are the various problem areas in DDBS environment? Explain them in detail.	07
Q.2	(a) (b)	Explain Layers of Query Processing. Explain type of networks topology.	07 07
		OR	
	<b>(b)</b>	Explain all normal forms with example.	07
Q.3	(a)	Draw and explain various components of Distributed DBMS.	07
<b>~</b>	(b)	Describe COM_MIN algorithm used in horizontal fragmentation.	07
	()	OR	
Q.3	(a)	What is site Autonomy in Distributed DBMS? Explain in brief.	07
<b>C</b>	<b>(b)</b>	Describe BEA algorithm used in vertical fragmentation.	07
Q.4	(a)	Draw and explain query optimization process.	07
Q.1	(b)	Explain reduction for hybrid fragmentation.	07
	(,-)	OR A	
<b>Q.4</b>	(a)	What do you mean by query optimization? Explain System R (centralized)	07
•	( )	query optimization algorithm.	
	<b>(b)</b>	Explain partitioning algorithm.	07
Q.5	(a)	Explain various transaction states and properties in detail.	07
Q.S	(a)	Explain Various transaction states and properties in detail.  Explain Centralized Semantic Integrity Control.	07
	<b>(b)</b>	OR	U/
0.5	(a)	Explain Two Phase Commit Protocol.	07
Q.5	(a)	Explain 1 wo I hase Commit 1 1000col.	U/

(b) Explain View management. How it is carried out in centralized and distributed

**07**