

## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (OLD) EXAMINATION – WINTER 2018				
Su	bject	Code: 171602 Date: 29/11/2018	8	
Su	bject	Name: Distributed Database Application & System		
Time: 10:30 AM TO 01:00 PM Total Marks			: 70	
Ins	tructio			
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Q.1	(a) (b)	Explain the potential problems with DDBMS. Define Normalization. Explain Normalization up to BCNF.	07 07	
Q.2	(a) (b)	Explain top-down design process in detail. What are distributed systems? Compare distributed system with centralized one?  OR	07 07	
	<b>(b)</b>	Explain views in centralized DBMSs with examples.	07	
Q.3	(a) (b)	Explain layers of query processing.  Explain Peer to Peer Distributed System.  OR	07 07	
Q.3	(a) (b)	List steps of query decomposition and discuss the same in brief What are the various types of computer networks? Explain in detail.	07 07	
Q.4	(a) (b)	Explain MDBMS architecture with and without GCS for distributed DBMS. What is authorization control? How do imply authorization control in a distributed environment?	07 07	

**07 Q.4** (a) Explain layers of transparency. (b) Explain Distributed Cost Model with an example. **07 Q.5** (a) Write a note on parallel database system. **07** (b) Define a transaction. Discuss the ACID properties of transaction in the context **07** of DDBs.

(a) Write short note on: Reliability in Distributed DBMS **07** Q.5 (b) Write short note on: Two Phase Commit Protocol for Distributed Transactions **07**