Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## ME – SEMESTER II– EXAMINATION – WINTER - 2016

Subject Code: 2722311 Subject Name: Advance Database Time: 2:30 pm to 5:00 pm		Code: 2/22311 Date: 18/11/20	Date: 18/11/ 2016  Total Marks: 70	
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Q.1	(a)	Draw and explain distributed database system architecture with its pros, cons and implementation issues.	07	
	<b>(b)</b>	Write a note on parallel database system architecture.	07	
Q.2	(a) (b)	List and explain various partitioning techniques of I/O parallelism.  Write a note on data fragmentation and data replication for data storage of distributed system.	07 07	
		OR		
	<b>(b)</b>	Draw and explain client server system architecture.	07	
Q.3	(a) (b)	List and explain OLAP operations with a proper example.  Write a note on: operational database system and data warehouse.  OR	07 07	
Q.3	(a) (b)	Write differences between OLTP with OLAP. Write a note on: attribute value skew and partition skew.	07 07	
Q.4	(a) (b)	Explain two phase commit protocol.  Write a note on: Inter query parallelism and Intra query parallelism.  OR	07 07	
Q.4	(a) (b)	Discuss XPath and XQuery with appropriate example. List and explain various approaches to store XML data in database. Also, discuss its advantages and disadvantages.	07 07	
Q.5	(a) (b)	Write a note on transactional workflows.  Explain spatial and geographical database.  OR	07 07	
Q.5	(a)	Discuss multimedia database and time-in database.	07	
-	` ′	Explain Transaction processing monitor architectures with proper diagram.	07	

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