Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME- SEMESTER II– EXAMINATION – SUMMER 2015

Subject Code: 2722311 **Date: 28/05/2015**

Subject Name: Advance Database

Time: 2:30 PM – 5:00 PM **Total Marks: 70**

Instructions:

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

Q.1	(a)	Discuss about Transaction system processes.	07
	(b)	Explain Parallel Database architecture.	07
Q.2	(a)	Explain Inter-operation and Intra-operation parallelism.	07
	(b)	Discuss handling of skew in parallelism.	07
		OR	
	(b)	Difference between vertical and horizontal fragmentation with example.	07
Q.3	(a)	Write a short note on Two Phase Commit Protocol.	07
	(b)	Discuss Design issues of distributed database.	07
		OR	
Q.3	(a)	Explain Snowflake multidimensional data model.	07
	(b)	Differentiate OLAP and OLTP.	07
Q.4	(a)	Discuss X-path and X-query with example.	07
	(b)	Discuss applications of XML.	07
		OR	
Q.4	(a)	Explain Storage of XML in relational Database.	07
	(b)	Write a short note on spatial and geographical database.	07
Q.5	(a)	Explain R-tree with search, split and delete option.	07
	(b)	Discuss Transaction Processing monitor architecture.	07
		OR	
Q.5	(a)	Discuss real-time transaction system.	07
	(b)	Explain Distributed DBMS architecture.	07

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