Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-IV • EXAMINATION – SUMMER 2013

	•	t Code: 740101 Date: 14-05-2013	3
Ti		. Attempt all questions. Make suitable assumptions wherever necessary.)
Q.1	(a) (b)	Discuss problem areas in DDBS environment. Explain functional layers of a relational DBMS.	07 07
Q.2	(a) (b)	Explain with example: tightly coupled and loosely coupled approach. Explain MDBS architecture without a GCS. OR	07 07
	(b)	What are the information requirements during allocation?	07
Q.3	(a) (b)	Explain clustering algorithm using matrices. What do you mean by set oriented assertions? Explain. OR	07 07
Q.3	(a) (b)	What are the layers of query processing? Explain reduction for hybrid fragmentation.	07 07
Q.4	(a) (b)	Explain semijoin based algorithms. Give an example workflow during transactions. OR	07 07
Q.4	(a) (b)	Explain optimistic concurrency control algorithms. Draw and explain a diagram of logging interface.	07 07
Q.5	(a) (b)	Draw a diagram of 3PC protocol actions. What are parallel execution problems? Explain.	07 07
Q.5	(a) (b)	OR What are architectural issues in distributed object DBMS? What are the query processing steps in multidatabase system?	07 07
