Seat No.: Enrolment N		Enrolment No	lo	
		GUJARAT TECHNOLOGICAL UNIVERSITY		
		B. E SEMESTER – III • EXAMINATION – WINTER 2012		
Sub	iect	code: 130703 Date: 05-01-2013		
	•	Name: Database Management Systems		
	-	0.30 am – 01.00 pm Total Marks: 70		
		tions:		
11150		Attempt all questions.		
		Make suitable assumptions wherever necessary.		
		Figures to the right indicate full marks.		
Q.1	(a)	Define database. Explain the three level architecture of DBMS.	07	
	(b)	•	07	
Q.2	(a)		07	
	(I-)	diagram to ER database schema.	Λ,	
	(b)	Define: (1) Primary key (2) Foreign key (3) Unique Key (4) Not null (5) Commit (6) Candidate key (7) Rollback. OR	07	
	(b)		07	
		(o) Transace (1) Brop.		
Q.3	(a)	J	07	
	(I-)	Explain 3NF and BCNF.	Λ,	
	(b)	Write queries for the following tables. T1 (Empno, Ename, Salary, Designation), T2 (Empno, Deptno.)	07	
		(1) Display all rows for salary greater than 5000.		
		(2) Display the deptno for the ename='syham'.		
		(3) Add a new column deptname in table T2.		
		(4) Change the designation of ename='ram' from 'clerk' to 'senior clerk'.		
		(5) find the total salary of all the rows.		
		(6) Display Empno, Ename, Deptno and Deptname.(7) Drop the table T1.		
0.1	(.)	OR	Λ.	
Q.3	(a)		07	
	(b)	what is System recovery? Explain two phase commit protocol.	U	
Q.4	(a)	Define Locking. Explain two phase locking protocol.	07	
	(b)	1 1	07	
0.4	(a)	OR Explain the issues of a detabase design	07	
Q.4	(a) (b)		07	
	(0)	Cartesian product operations.	U	
Q.5	(a)	1	07	
	(b)	database. Explain Locked based protocol	07	
	(b)	Explain Locked based protocol. OR	U	
Q.5	(a)		07	
-	(b)	1 71	07	
