Seat No.: _____

Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- V • EXAMINATION – SUMMER 2015

Subject Code: 650004 Date:08/05			/2015	
_	e: 02	Name: Advanced Database Management System 2:30 pm to 05:00 pm Total Marks	: 70	
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Explain the process of granting and revoking of privileges.	07 07	
Q.2	(a) (b)		07 07	
	(b)		07	
Q.3	(a)	*	07	
	(b)	affect UNDO and REDO operations to be performed in Recovery Process? What is Encryption? List any two standard private key algorithms used for encryption. Which is better and why? How private key algorithms are different than public key algorithms?	07	
0.2	(a)	OR	07	
Q.3	(a) (b)	vertical partitioning, and horizontal portioning with suitable examples.	07 07	
Q.4	(a)	What do you mean by Distributed Database? Explain advantages of	07	
	(b)	Distributed Databases. Explain the concept of Data Fragmentation in DDBMS. OR	07	
Q.4	(a)	Consider R1(A, B, C)&R2(D, E, F). Explain how relational operations such as Selection, Projection, Cartesian Product, Natural Join, Intersection,	07	
	(b)	Union, and Differencecan be specified as Datalog rules. List different types of Object-Relational support in SQL-99. Explain Type Constructors.	07	
Q.5	(a)		07	
	(b)	Write a short note on Intermittently Synchronized Databases. OR	07	
Q.5	(a)	(i) Differentiate between Raster Data Model and Vector Data Model.	07	
	(b)	(ii) Explain in brief Global Object Name and Connect Descriptor.Write a short note on Database Links.	07	
