Subj	ect 1	GUJARAT TECHNOLOGICAL UNIVERSITYM.C.A SEMESTER – V • EXAMINATION – WINTER 2012code: 650004Date: 28-12-2012Name: Advanced Database Management Systems (ADBMS)0:30 am – 1:00 pmTotal Marks: 70	
		ions:	
11150		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	5.	Figures to the right indicate full marks.	
Q.1	(a)	Discuss Component modules of DBMS and its interactions with diagram.	07
L	(b)	•	07
	(~)	1. Give reasons why most database are stored permanently on magnetic	
		disk storage.	
		2. Give functions of various database system utilities.	
Q.2	(a)	Discuss four main control measures used to provide Security in Databases.	07
	(b)	Discuss various issues related to security and threats to Database.	07
		OR	
	(b)		07
		during tuning; also discuss types of problems faced during Database Tuning.	
Q.3	(a)	Discuss Deferred update and Immediate update recovery techniques.	07
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	(b)	· · · ·	07
		How does insertion of a record in a block affect a primary or clustering index- considering the case of with and without overflow?	
		OR	
Q.3	(a)		07
V •2	(a)	1. How Distributed Database is different from Parallel Database?	07
		2. What is meant by Data Allocation in Distributed Database design?	
	(b)	What is Partitioned Hashing? How does it work? What are its limitations?	07
Q.4		What is Spatial Database? Explain different types of Spatial queries.	07
C	(b)		07
		indexes.	
		OR	
Q.4	(a)	What is Prolog and Datalog? Discuss its similarity and its	07
		differences with example.	
	(b)	What is Temporal Database? Discuss benefits of Temporal Database giving	07
		example.	
Q.5	(a)		07
		and overloading function written in SQL for Object	
		Relational database system.	
	(b)	••	07
		Multimedia data available in current systems.	
		OR	
Q.5	(a)	Draw and briefly explain Mobile Computing architecture.	07
	(b)	1 0	07
		1. What is function of Service name and Listener in oracle?	
		2. Discuss in brief Oracle Net Configuration.	
