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M.Tech. (CE) 3 rd Sem. Exam. – January, 2012		
Advanced DBMS (MTCE-703A)		
	3 Hours Max. Max	r <u>ks:100</u>
	: Attempt any FTVE questions.	
l.a)	With suitable example, explain difference between Natu Semi Join and Cartesian product operations in re	lational
	algebra.	08
b)	What is Normalization? What is its need? Define & discrete and BCNF using suitable examples.	12
2.a)	Does the data dictionary have any role to play in processing? Describe with the help of an SQL query re Join operation, Selection and Projection.	quiring 10
b)	What do you mean by query processing? Explain various of query processing with the help of a diagram.	ıs steps 10
3.a)	Explain how the recovery in Centralized DBMS is perfordetail.	10
b)	Why is recovery needed in databases? How log based re is different from check point based recovery? Explain.	10
4.a)	What do you mean by object oriented database? What features? How is it different from relational databases?	12
b)	Explain object query language in detail.	80
5.a)	What do you mean by DDBMS? What are its advant disadvantages?	ages & 10
b)	Explain various data replication techniques of DDBMS by their merits & demerits.	giving 10
6.a)	What is difference between database and dataware Explain by example.	10
b)	Explain various components of data warehouse in detail.	
7.a)	Compare & contrast object relational databases and oriented databases.	object 10
b)	Explain features of enhanced SQL of object relational da with help of examples.	tabases 10
8.	What is concurrency control? Explain multiversion conc control technique. How timestamp based concurrency of different from locking schemes? Explain.	
	amerent nonthorning seriences: Explain.	
