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GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-IV • EXAMINATION- WINTER • 2015

Subject Code: 740101			Date: 05\12\2015	
•	2:30	ne: Distributed Database System PM TO 5:00 PM Total Marks: 70)	
mstruc	1. Atte	empt all questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.		
Q:1	(A)	Discuss the problem areas to be resolved to realize the full potential of Distributed DBMS.	07	
	(B)	Explain the design strategies for distributed databases.	07	
Q:2 (A)	(A)	Explain distributed query processing in detail.	07	
	(B)	Explain distributed version of 2PL protocol with suitable example.	07	
		OR		
	(B)	Explain distributed version of timestamp ordering (TO) protocol with suitable example.	07	
Q:3	(A)	Discuss the object orientation and interoperability.	07	
	(B)	Explain in detail the Distributed Component Object Model (DCOM)	07	
		OR		
Q:3	(A)	Explain the semantic integrity control in distributed database management system.	07	
	(B)	Discuss the Bond Energy Algorithm (BEA) in detail with example.	07	
Q:4	(A)	Explain the parallel execution for hierarchical architecture.	07	
	(B)	Discuss the architecture of parallel database system.	07	
		OR		
Q: 4	(A)	List difference between local reliability protocols and distributed reliability protocols	07	
	(B)	Discuss the properties of transactions for distributed data base systems.	07	
Q:5	(A)	Explain characteristics of optimistic concurrency control algorithms.	07	
	(B)	Explain distributed deadlock detection and resolution.	07	
		OR		
Q:5	(A)	Explain difference between static QOA Dynamic QOA		
	(B)	Write short note on Mobile Databases.	07	
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