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BICSE-007

B.TECH. COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination December, 2013

Ö	RIO	CSE-007 : DISTRIBUTED DATABASE	
Time: 3 hours Maximum Man			: 70
Note: Attempt any seven questions. All questions carry equa l marks.			
1.	(a)	Define Distributed Database. Explain the Distributed System Architecture.	6
	(b)	Distinguish the features of distributed database with centralized database.	4
2.	mod	lain about transaction and computation el for Distributed Database management em with an example.	10
3.	(a)	What is data replication? Explain with example. Describe different layers of Query processing.	6
	(b)	Define concurrency control and commit protocol.	4
4.	(a)	Explain the objective of Query process optimization.	5
	(b)	Explain about granularity based locking.	5

- 5. (a) What are the differences between Semi Join 5 and Natural Join? Explain with the help of suitable example.
 - (b) What is a scheduler ? Why its activity 5 important for concurrency control ?
- 6. What is database recovery? Explain different 2+8 database recovery techniques with the help of suitable example.
- 7. (a) Discuss drawbacks of 2PC protocol in distributed system with example.
 - (b) Does 3PC protocol resolve all the problem.

 Discuss 3PC protocol with the help of state transition diagram.

5

- (a) Explain the various strategies used in buffer management.
 (b) Why are distributed deadlocks occurred?
 5
 Explain with the help of suitable exmaple.
- **9.** Write short notes on **any two** of the following :
 - (a) Federated Database system. 5x2=10
 - (b) Fragmentation.
 - (c) Check point.