No. of Printed Pages : 2

BICSE-007

13	B.	B.TECH. COMPUTER SCIENCE AND ENGINEERING (BTCSVI) Term-End Examination		
00643				
00	December, 2012			
BICSE-007 : DISTRIBUTED DATABASE				
Time : 3 hours		ours Maximum Marks	Maximum Marks : 70	
Not		ttempt any seven questions. All questions carry e aarks.	equal	
1.	(a)	Discuss the relative advantages of centralized and distributed databases.	6	
	(b)	Explain the notions of transparency and autonomy.	4	
2.	(a)	What is data replication, and what are the three replication strategies ?	5	
	(b)	Describe the evolution from centralized DBMS to distributed DBMS.	5	
3.	mul	Describe how LDAP can be used to provide 10 multiple hierarchical views of data, without replicating the base level data.		
4.	(a)	Explain the difference between file server and client server architecture.	5	
	(b)	What are the different types of query optimization algorithms ?	5	
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- 5. (a) Describe the various components of 4 DDBMS.
 - (b) Give an example where the read one, and write all available approach leads to an erroneous state.
- (a) Explain the various strategies used in buffer 5 management.
 - (b) Is the expression $r_i \alpha r_j$ necessarily equal to 5 $r_j \alpha r_i$?
- 7. (a) What is a scheduler, what does it do and 6 why is its activity important for concurreny control ?
 - (b) What is application recovery problem ? 4
- Discuss the advanced transaction models suitable 10 for different kind of distributed DBMS.
- 9. (a) Explain how 2 PC ensures transaction 5 atomicity despite the failure ?
 - (b) Explain the need for the two phase commit **5** protocol.