BICSE-007

B.TECH. COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

June, 2013

BICSE-007 : DISTRIBUTED DATABASE

Time	: 3 h	ours Maximum Mark	Maximum Marks : 70	
Note : Attempt any seven questions. All question equal marks.		s carry		
1.	(a)	Does distributed database designed for a local - area network differ from one designed for a wide - area network ?	5	
	(b)	To which transparency feature are the query optimization functions related ? Explain briefly.	5	
2.		Discuss the advanced transaction models suitable 10 or different kinds of DDBMS.		
3.	(a)	List and discuss some of the factors that influenced the evolution of DDBMS.	6	
	(b)	Describe the three data fragmentation strategies, with the help of suitable examples.	4	
4. •	data with	ly and summarize the facilities that the base system you are using provides for dealing inconsistent states that can be reached with propagation of updates.	10	

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- 5. (a) List various types of query optimization 5 techniques used in DDBMS.
 - (b) Differentiate between file server and 5 client - server architecture.
- 6. (a) What are the advantages and disadvantages 5 of DDBMS ?
 - (b) Describe the evolution from centralized 5DBMS to DDBMS.
- (a) Explain why it may be impractical to require 4
 serializability for long duration
 transactions.
 - (b) What is the purpose of compensating 6 transactions ? Give two examples of their use.
- 8. (a) What are the three broad levels at which a 5 database system can be tuned to improve performance ?
 - (b) Give two examples of how tuning can be 5 done, for each of the levels.
- 9. (a) Describe the benefits and drawbacks of 4 pipelined parallelism
 - (b) Explain the notions of transparency and **6** autonomy.

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