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BICSE-007

P.T.O.

## B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

## **Term-End Examination**

00633

BICSE-007

December, 2016

## **BICSE-007: DISTRIBUTED DATABASE**

Maximum Marks: 70 Time: 3 hours Note: Answer any seven questions. All questions carry equal marks. What is fragmentation in DDBMS? What (a) 1. are the different types of fragmentation? Why is fragmentation a useful concept in 6 distributed database design? Discuss any two advantages of distributed (b) 4 databases. Differentiate between centralized and (a) 2. 6 distributed databases. What is replication in DDBMS? What are (b) its advantages? 4

3.	Explain the problems encountered in DDBMS in	
	the context of concurrency control and recovery.	10
4.	What is a lock? Discuss granularity in locks.	
	Describe the different types of locks used in concurrency control along with their	
	compatibilities.	10
<b>5.</b>	Discuss communication failures in DDBMS.	10
6.	(a) What are the desirable properties of a transaction?	4
٠	(b) Discuss the issues related to federated database systems.	6
7.	What are checkpoints in DDBMS ? How are	
	checkpoints used for recovery in DDBMS?	10
8.	Discuss the integrity constraints in distributed databases.	10
	databases.	10
9.	Describe the reference architecture for distributed databases.	. 10
	distributed databases.	10