

**B.Tech. – VIEP – COMPUTER SCIENCE AND
ENGINEERING (BTCSVI)**

00331

**Term-End Examination
June, 2014**

BICSE-007 : DISTRIBUTED DATABASE

Time : 3 hours

Maximum Marks : 70

Note : Answer any seven questions. All questions carry equal marks.

1. Explain Distributed Database System. Write the difference between Centralized and Distributed DBMS with respect to DBA, redundancy, indexing, reliability and performance. 2+8

2. (a) Describe the various components of DDBMS. 5
(b) Explain the File Server and Client/Server architecture. 5

3. (a) What is data fragmentation ? Describe the various types of fragmentation. 5
(b) Explain checkpoint and cold restart of a distributed database system. 5

4. (a) Explain framework for Query Optimization. 5
(b) Briefly explain about Heterogeneous databases. 5

5. (a) What is distributed transparency ? Explain different levels of distributed transparency. 5
- (b) What are the advantages and disadvantages of replication ? 5
6. Define database recovery. Explain different techniques for database recovery with the help of suitable example. 2+8
7. Discuss the advanced transaction models suitable for different kinds of distributed DBMS. 10
8. (a) Explain Distributed Cost Model with an example. 5
- (b) Discuss the Cardinality of Selection. 5
9. Write short notes on any *two* of the following : $2 \times 5 = 10$
- (a) Buffer Management
- (b) 2 PC
- (c) Distributed Deadlocks
- (d) Scheduler
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