

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

Term-End Examination

00284

June, 2017

BICSE-007 : DISTRIBUTED DATABASE

Time : 3 hours

Maximum Marks : 70

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

1. Explain the different types of transparency in DDBMS. 10
2. Discuss the objectives of the design of data distribution. 10
3. Discuss the deadlock detection methods in DDBMS. 10
4. What is two-phase locking protocol ? How does it guarantee serializability ? 10
5. Discuss the problems in query optimization in DDBMS. 10

6. (a) Define the concept of schedule, serial schedule and serializable schedule. 5
- (b) Discuss semi joins in DDBMS with the help of an example. 5
7. Discuss the following terms : 10
- (a) Federated DBMS
- (b) Data fragmentation in DDBMS
- (c) Multidatabase system
- (d) Data Replication in DDBMS
8. What are checkpoints ? What operations are required for performing checkpoints ? How are checkpoints used for recovery in DDBMS ? 10
9. What are the problems which arise in DDBMS with respect to concurrency control and recovery which are not encountered in centralized DBMS ? 10
-