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# Exam. Code : 206702 Subject Code : 5238

## M.Sc. Computer Science 2nd Semester DISTRIBUTED DATABASE SYSTEMS Paper-MCS-205

Time Allowed—3 Hours] [Maximum Marks—100

**Note** :— Attempt any **FIVE** questions. All questions carry equal marks.

- 1. Define distributed database system. What are the problems in distributed database system ? Tabulate the differences in distributed database and centralized database. 20
- 2. (a) What is fragmentation. What are various methods of fragmentation ? Discuss in detail. 10
  - (b) What are different types of schemes ? Explain with suitable examples. 10
- 3. What is a query ? How a database operation can be represented in form of a query ? What are various operations which can be performed in a query ? Discuss with suitable examples. 20
- 4. Elaborate the process of query optimization. 20
- Define transaction. What are the termination conditions for a transaction ? What are various goals of transaction management ? Discuss in detail with suitable examples.
   20

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- 6. (a) Two-phase locking increases concurrency in transaction execution relative to static locking. However what problems are associated with the two phase locking?
  - (b) What are various integrity constraints? Discuss briefly.
- What do you mean by deadlock ? Discuss in detail various control organizations for distributed deadlock detection.
   20
- 8. Discuss the following in detail :
  - (a) Distributed database administration 10
  - (b) Authorization and protection in distributed database.

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