Exam. Code : 208602

Subject Code: 4668

M.Sc. Information Technology 2nd Semester DISTRIBUTED DATABASES

Paper: MIT-202

Time Allowed—Three Hours] [Maximum Marks—100

Note: — Attempt any FIVE questions, all questions carry equal marks.

- 1. What is distributed database? What are various design issues of Distributed Database?
- (a) What is difference between homogenous and heterogeneous DDBMS?
 - (b) Explain various functions of DDBMS.
- (a) What is difference between Client-Server and Peerto-Peer distributed systems?
 - (b) Explain following concepts with regard to DDBMS:
 - (i) Design Autonomy
 - (ii) Structural heterogeneity.
- Explain any one algorithm used in horizontal fragmentation. What is hybrid fragmentation?

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- 5. What is allocation problem? What are information requirements for allocation?
- 6. What is the need of query optimization? Explain any one algorithm for query optimization.
- 7. What is query decomposition? Explain popular query decomposition techniques.
- 8. (a) What are objectives of concurrency control?
 - (b) Explain distributed two phase locking.

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