Exam. Code : 208602

Subject Code: 8392

M.Sc. (Information Technology) Semester—II

DISTRIBUTED DATABASES

Paper—MIT-202

Time Allov ei—3 Hours] [Maximum Marks—100

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

- 1. (a) Explain the concept of DDBMS. What should be the characteristics of DDBMS?
 - (b) Discuss various advantages of DDBMS citing suitable example.
- 2. (a) Differentiate between Heterogeneous and Homogeneous DDBMS.
 - (b) Explain the Reference Architecture for a DDBMS.
- 3. Discuss the role of Data Fragmentation in DDBMS. Explain various types of fragmentation using suitable examples.
- 4. Explain the concept of Two-Phase Locking citing suitable example in DDBMS. How is it different from Centralized Two-Phase Locking?
- 5. What do you mean by Distributed Concurrency Control? What are its objectives? Discuss different methods of Concurrency Control in detail.

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- 6. Discuss the various steps of distributed query processing with the help of an example.
- 7. Discuss different available architectural models for DDBMS.
- 8. C.p'ain various steps involved in Query Decomposition citing suitable example.