Exam. Code : 208602
Subject Code : 5283

## M.Sc. Information Technology 2nd Semester
## DISTRIBUTED DATABASES
### Paper—MIT–202

Time Allowed—3 Hours]              [Maximum Marks—100

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

1.   What is Distributed Database ? How does it differ from centralised database ? What are its advantages ?

2.   (a)   What is difference between homogenous and heterogeneous DDBMS ?

     (b)   Explain various functions of DDBMS.

3.   (a)   Explain Client–Server architecture with figure.

     (b)   What is the use of affinity matrix ?

4.   Explain the concept of fragmentation with regard to DDBMS. Explain any one algorithm used in vertical fragmentation.

5.   What is allocation problem ? What are information requirements for allocation ?

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6. What is the need of query decomposition ? List steps of query decomposition and explain any one from that.

7. What is query optimization ? List components of query optimizer software and explain any one from that.

8. What is concurrency control ? Explain centralized and distributed two phase locking.