

Class – M.Sc. (CS) Sem-II

Subject – Distributed Database Systems

Paper – MCS – 205

Time Allowed : 3 Hours

Maximum Marks : 100

Note : Attempt any five questions.

1. Give Features of Distributed versus centralised databases. 20
2. (a) What are necessary software components of DBMS? 10
(b) What do you understand by homogeneous and heterogenous database systems? 10
3. Explain the reference architecture of DDBMS. What are global relations, fragment and physical image? 20
4. Explain the various methods of fragmentation of a relation with examples. 20
5. Explain the various goals of transaction management. 20
6. Explain log based recovery mechanism. How checkpoints are helpful in recovery? 20
7. Explain 2 phase committment protocol in detail. 20
8. How deadlock detection is done using centralized and hierarchical controllers? 20
