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Exam. Code : 206702

Subject Code: 3525

M.Sc. (Computer Science) Semester—II DISTRIBUTED DATABASE SYSTEMS

Paper—MCS-205

Time Alloyed—3 Hours] [Maximum Marks—100

Note: There are *eight* questions. Attempt any *five*. Each question carries equal marks. Student can use only non-programmable and non-storage type calculator.

- 1. (a) What is global relation?
 - (b) Which are different types of Schemes?
- 2. (a) How a global query is converted into fragmented query?
 - (b) What is role of unary and binary tree in a query?
- 3. (a) Explain hybrid fragmentation with the help of an example.
 - (b) Which are various levels of transparency in a distributed database system?
- 4. (a) Give examples of aggregate functions and parametric queries.
 - (b) Write a note on log based recovery mechanism.

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- 5. Discuss the process of query optimization.
- 6. Explain following with reference to distributed databases:
 - (a) 3-Phase locking and commitment protocol.
 - (b) What is concurrency control?
- 7. Explair, following with reference to distributed databases:
 - (a) Distributed database administration
 - (b) Authorization and protection in distributed databases.
- 8. (a) What is role of local and global wait for graph in distributed deadlocks?
 - (b) What are heterogenous (iatai) ase systems?