Exam. Code : 206702 Subject Code : 4623

M.Sc. (Computer Science) Semester—II MCS-205 : DISTRIBUTED DATABASE SYSTEMS Time Allowed—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 DDBMS?
 - (b) Which are different types of Schemas?
- 2. (a) How a global query is converted into fragmented query ?
 - (b) Give examples of aggregate functions and parametric queries.
- 3. (a) Explain hybrid fragmentation with the help of an example.
 - (b) Which are various reasons of fragmentation ? Are there any alternatives to fragmentation ?
- 4. (a) Which are various integrity constraints?
 - (b) Which are different properties and goals of transaction management ?
- 5. Discuss the process of query optimization.

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- Explain following with reference to distributed databases : 6.
 - 3-phase locking and commitment protocol (a)
 - (b) Deadlock detection.
- 7. Explain following with reference to distributed databases :
 - (a) Distributed database administration
 - (b) Authorization and protection in distributed databases.
- (a) Various applications of distributed databases. 8
 - (b) Reduction of relation using join and semi-join operations.

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