

IV B.Tech II Semester Regular/Supplementary Examinations, May 2010
DISTRIBUTED DATABASES
Computer Science And Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Discuss the following:
 - (a) Fragmentation tree
 - (b) Controlling redundancy
 - (c) Integrity constraints
 - (d) Graceful degradation. [4+4+4+4]

2. Write a short note on the following:
 - (a) The Distribution of Catalogs
 - (b) User Identification
 - (c) Classes of Users. [8+4+4]

3. (a) What is query Translation? Explain classification equivalence Transformations.
- (b) How is distributed grouping and aggregate function evaluation done? [8+8]

4. Explain the following:
 - (a) 2-Phase-Locking as a Distributed Concurrency Control Method
 - (b) Occur before relationship. [10+6]

5. (a) Discuss the effect of commuting Joins and Unions in DDB.
- (b) Discuss how query optimization is done using AHY algorithm. [8+8]

6. (a) Discuss about the communicational structure for distributed transactions
- (b) Discuss about the communication structure for commit protocols. [8+8]

7. Give an algorithm for complex operations that are performed at remote sites and the partial results are shipped to the central site for final assembly. [16]

8. Explain the following in detail:
 - (a) Query optimization issues in DDBs
 - (b) World Wide Web Architecture and Protocols.
 - (c) Datawarehousing architectures. [8+4+4]
