

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. Explain the following:
 - (a) Occur before relationship
 - (b) "Deadlock Free"
 - (c) Two phase locking
 - (d) State the voting rule. [4×4]

2. Write a short note on the following:
 - (a) Content of Catalogs
 - (b) Centralized catalogs
 - (c) Fully replicated catalogs
 - (d) Local catalogs. [8+2+2+4]

3. Write about the following for Distributed Databases
 - (a) Developing an operator tree
 - (b) Semi-joins with an example. [8+8]

4. How query execution is done in object query processing. [16]

5. (a) Write about the atomicity of transactions in distributed databases with emphasis on failures and logs and recovery methods.
(b) Explain the 2-phase commitment protocol. [8+8]

6. (a) Discuss the objectives of Query processing optimization.
(b) Discuss how query optimization is done using AHY algorithm. [8+8]

7. (a) Write about the completeness, reconstruction, and disjointness condition rules for defining fragmentation.
(b) Given a global relation
EMP(EMPNUM,NAME,SAL,TAX,MGRNUM,DEPTNUM)
Write the mixed fragmentation definition and fragmentation tree of relation EMP. [8+8]

8. Explain the following :
 - (a) Propagating updates

Code No: R05420504

R05

Set No. 4

(b) Client cache management.

[8+8]
