

**R09**

**Code No: D0502, D5802**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M.Tech II - Semester Examinations, March/April 2011**

**DISTRIBUTED DATABASES**

**(COMMON TO COMPUTER SCIENCE, COMPUTER SCIENCE & ENGINEERING)**

**Time: 3hours**

**Max. Marks: 60**

**Answer any five questions**

**All questions carry equal marks**

- - -

1. a) Write the list of main motivations for distributed databases?  
b) Write about the 2-phase commitment protocol? [6+6]
2. a) Write the goals of Transaction Management.  
b) Write the problems in query optimization? [6+6]
3. a) Write about weighted Majority Locking?  
b) Explain query processing issues? [6+6]
4. a) Explain distributed database access primitives?  
b) Write about parametric queries? [6+6]
5. a) Write about Distributed deadlock detection and prevention?  
b) Explain derived Horizontal fragmentation? [6+6]
6. a) Explain Top-Down and Bottom-up approaches to the design of data distribution?  
b) Explain redundant databases? [6+6]
7. a) Explain PUSH-based Technologies.  
b) Write about distributed transactions. [6+6]
8. a) Write about the importance of query optimization in distributed databases?  
b) Explain distributed grouping and aggregate function evaluation. [6+6]

\*\*\*\*\*