

R09

Code No: D7401

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech II - Semester Examinations, March 2011

**DISTRIBUTED DATABASES
(PARALLEL COMPUTING)**

Time: 3hours

Max. Marks: 60

**Answer any five questions
All questions carry equal marks**

- - -

1. What is a Distributed Database Management System? What are the necessary components for building a distributed database? [12]
2. What is an Operator Graph? How it is used in identification of common sub expressions. [12]
3. Explain the basic SDD-1 algorithm for constructing reducer program for relations. [12]
4. Explain the following:
a) Properties of Transactions.
b) Goals of Transaction management. [6+6]
5. Explain about Distributed Deadlocks in detail. [12]
6. Explain Concurrency Control based on Time Stamps in distributed databases. [12]
7. Write the local recovery procedure for 3-Phase commitment. [12]
8. Explain:
a) Pointer Swizzling.
b) Object query processor architecture. [6+6]
