**Code No: NR-44**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**
**MCA IV Semester Supplementary Examinations January 2010**
**DISTRIBUTED DATABASES**

**Time: 3 hours**                                                     **Max.Marks:60**

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

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1. a) What is meant by Data Fragmentation? Explain with an example the "Horizontal fragmentation".
   b) Explain the features of Distributed Databases.

2. Explain the various steps involved in the Design of Database Fragmentation.

3. a) Discuss in detail about Global Queries and Fragment Queries.
   b) Explain the working of Parameter Queries.

4. What are the features of Query Optimization in Distributed Databases? Explain with suitable example.

5. Discuss the features of Transaction Management in Distributed Databases.

6. a) What is a Deadlock in Databases? Explain Distributed Deadlock Detection Algorithm.
   b) What is a False Deadlock? Explain with a neat diagram.

7. a) Explain briefly about Ingress Heterogeneous Database.
   b) Explain the features of IBM's intersystem communication.

8. Write short notes on:
   a) Inconsistency in Databases
   b) Check points
   c) Concurrency Control in DDB

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