R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH I SEMESTER EXAMINATIONS, APRIL/MAY 2012
DISTRIBUTED DATABASES
(COMPUTER NETWORKS AND INFORMATION SECURITY)
Time: 3hours   Max.Marks:60
Answer any five questions
All questions carry equal marks
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1.a)   Explain centralized databases and distributed databases with examples?
  b)   Define Vertical fragmentation. Explain vertical fragmentation with an example.

2.a)   Write notes on fragmentation query and canonical expression.
  b)   Define Parametric Query. Give an example.

3.a)   What is Query Optimization? What are the advantages of Query optimization?
  b)   Write notes on Join Queries.

4.a)   Give a brief account on architectural aspects of distributed databases.
  b)   Explain how atomicity is achieved in distributed transactions.

5.a)   What is a timestamp? Explain how concurrency control is achieved using timestamps.
  b)   Write notes on serializability.

6.   Explain 2-phase commitment protocol with necessary diagrams.

7.a)   What is a cold restart and explain how coldrestart is helpful in distributed databases.
  b)   Why authorization and protection are required in distributed databases? Explain.

8.   Write short notes on any **TWO** of the following:
        a) Object Identifier Management
        b) Scheme Integration
        c) CORBA

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