

Code: R7311205

R7

B.Tech III Year I Semester (R07) Supplementary Examinations, May 2013

**DISTRIBUTED DATABASES**

(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions  
All questions carry equal marks

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- 1 What are the main difference between distributed database and non distributed database?
- 2 (a) Explain canonical expression of a fragment query.  
(b) What is qualified relation and qualification of a qualified relation? Explain with an example.
- 3 (a) Describe about the nested-loop method.  
(b) Write about the use of joins as a query processing tactic.
- 4 Draw a neat diagram for distributed concurrency model and explain.
- 5 Explain in detail the conservative timestamp method. Discuss how it overcomes the disadvantages of basic timestamp method.
- 6 (a) Explain catalog management of distributed-INGRES and SDD-1 systems.  
(b) Discuss in detail Byzantine agreement.
- 7 (a) Write about garbage collection in distributed environment.  
(b) Explain detection-based algorithms for DBMS cache consistency.
- 8 Explain multi database concurrency control algorithms in detail.

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