Code No: 155AY

R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, February - 2022
DISTRIBUTED DATABASES
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks
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1.a) Explain the various problem areas in DDBS environment.
 b) Discuss the distributed database design issues.   [8+7]

2.a) Explain in brief about vertical fragmentation.
 b) Explain in brief architectural models for distributed DBMS.   [7+8]

3.a) Discuss the problems in query optimization in DDBs.
 b) Discuss the objectives of query processing.   [8+7]

4.   Explain any two distributed query optimization algorithms in brief.   [15]

5.a) Explain various types of transactions.
 b) Explain the concept of serializability.   [7+8]

6.   Explain in detail about time-stamp based concurrency control algorithm.   [15]

7.a) Discuss the failures in distributed DBMS.
 b) Explain distributed reliability protocols.   [7+8]

8.a) Discuss the architectural issues in distributed object DBMS.
 b) Explain in brief about distributed object storage.   [8+7]

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