Code No: 825AC

R15

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA V Semester Examinations, February - 2022
DISTRIBUTED DATABASES

Time: 3 Hours   **Max. Marks: 75**

Answer any Five Questions
All Questions Carry Equal Marks
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1.a)   Explain the features of distributed databases over centralized databases.
  b)   What is fragmentation? Explain.   [8+7]

2.   With a neat diagram explain the reference architecture for distributed databases.   [15]

3.   Explain the following.
        a) Parametric queries.
        b) semi join reduction.   [8+7]

4.   Discuss about the framework for query optimization.   [15]

5.   Discuss about distributed deadlocks.   [15]

6.   What is transaction? With suitable examples explain ACID properties. What are the goals
        of transaction management?   [15]

7.a)   Discuss in detail about checkpoints.
  b)   What are the design issues of a reliable distributed database?   [8+7]

8.a)   Explain about pointer swizzling.
  b)   Write about transaction management in object DBMS.   [7+8]

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