

R19**Code No: 865AG****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA V Semester Examinations, February - 2022****ADVANCED DATABASES****Time: 3 Hours****Max.Marks:75**

Answer any five questions
All questions carry equal marks

1. Distributed databases have many advantages; discuss the promises of DDBS technology. [15]
2. Describe a framework for top-down design process for distributed database. [15]
3. Provide a generic layering scheme for query processing and discuss the functions of layers. [15]
- 4.a) What do you mean by localization of data?
b) Differentiate between join and semi-join operation. [7+8]
5. Compare the communication structure of centralized 2PL with distributed 2PL. [15]
- 6.a) Discuss the basic idea behind conservative time-stamp ordering algorithm.
b) What policies are followed for deadlock avoidance in distributed databases? [8+7]
7. What are the advantages of parallel database system? Discuss a general architecture of a parallel database system. [15]
8. Explain the class partitioning algorithms. [15]

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