

[Total No. of Questions - 5] [Total No. of Printed Pages - 2]
(2064)

14739

M. Tech 2nd Semester Examination
Distributed Database Management System
MT-203

Time : 3 Hours

Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

1. Attempt two parts of the following : (2×10=20)
 - (a) List the advantages and disadvantages of DDBMS.
 - (b) What are four reasons for fragmenting a relation?
 - (c) Explain the terms: Primary copy update strategy and Global deadlock.
2. Attempt two parts of the following: (2×10=20)
 - (a) Explain various transparencies in a distributed DBMS.
 - (b) What is distributed deadlock management? And what are three common methods for handling deadlock detection in DDBMS?
 - (c) What are distributed Joins? Explain.
3. Attempt two parts of the following: (2×10=20)
 - (a) What is meant by the degree of local autonomy?
 - (b) What is mixed fragmentation? Give an example.
 - (c) Explain various architectural models for distributed DBMS.

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4. Attempt any two parts of the following: (2×10=20)
- (a) What are the problems encountered in DDBMS while considering concurrency control and recovery?
 - (b) Discuss the naming problem in distributed DDBMS.
 - (c) Why is data replication useful in DDBMS? What typical units of data are replicated?
5. Discuss briefly any five parts of the following: (5×4=20)
- (a) 3-tier architecture for DBMS.
 - (b) Failures in DDBMS.
 - (c) Abstraction and Data Integration.
 - (d) Data Associations.
 - (e) Normalization.
 - (f) Checkpointing.