



Answer the following questions: 2 pages four questions Total mark: [70]

First question:

Choose the correct answer:

1. The purpose of timestamping is to avoid locks?
(a) True (b) False
2. Some of the columns of a relation are at different sites in which of the following
(a) Horizontal Partitioning (c) Vertical Partitioning
(b) Data replication (d) Data localization
3. Which of the following is the advantage of replication?
(a) Reduced network traffic (c) If the database fails at one site, a
(b) Each transaction may proceed copy can be located at another site
without coordination across the (d) All of the above
network.
4. With failure transparency, all the actions of a transaction are committed or none of them are committed?
(a) True (b) False
5. Depending on the situation each node in the distributed database system can act as :
(a) client (c) client and server
(b) server (d) none of the above
6. Which transaction contains statements that access more than one site ?
(a) Remote transaction (c) Both a and b
(b) Distributed transaction (d) none of the above
7. Which mechanism guaranteed that all database sites participating in distributed transaction either all commit or all roll back the statements in the transaction ?
(a) commit (c) concurrency control
(b) Two-phase commit Protocol (d) none of the above
8. What are the two basic database access operations in a transaction ?
(a) commit (c) select
(b) read and write (d) vote
9. The purpose of data localization layer in distributed query processing is:
(a) Transfer the query from (c) Reduce the network
operating on the global relations communication overhead
to operate on fragments. (d) All of the above
(b) Reduce CPU service
10. Procedure a failed site has to go through to recover its state after a reset :
a) Recovery Protocol c) Transaction control
b) Termination Protocol d) Concurrency control
11. Site autonomy means each local DBMS retains complete control over local data and processing
a) True b) False
12. In internal schema data is defined in terms of file structures for storage and retrieval :
a) True b) False

