



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

First question:

Choose the correct answer:

- The purpose of timestamping is to avoid locks?
(a) True (b) False
- 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
- 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.
- With failure transparency, all the actions of a transaction are committed or none of them are committed?
(a) True (b) False
- 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
- 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
- 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
- What are the two basic database access operations in a transaction ?
(a) commit (c) select
(b) read and write (d) vote
- 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
- 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
- Site autonomy means each local DBMS retains complete control over local data and processing
a) True b) False
- In internal schema data is defined in terms of file structures for storage and retrieval :
a) True b) False

