Program: BE Computer Engineering

Curriculum Scheme: Revised 2012

Examination: Third Year Semester VI

Course Code: CPC603 and Course Name: Distributed Databases

Time: 1 hour Max. Marks: 50

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Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Which of the following is true concerning a global transaction?
Option A:	The required data are at one local site and the distributed DBMS routes requests
	as necessary.
Option B:	The required data are located in at least one nonlocal site and the distributed
	DBMS routes requests as necessary.
Option C:	The required data are at one local site and the distributed DBMS passes the
	request to only the local DBMS.
Option D:	The required data are located in at least one nonlocal site and the distributed
	DBMS passes the request to only the local DBMS.
Q2.	A homogenous distributed database is which of the following?
Option A:	The same DBMS is used at each location and data are not distributed across all
	nodes.
Option B:	The same DBMS is used at each location and data are distributed across all
	nodes.
Option C:	A different DBMS is used at each location and data are not distributed across all
0 11 5	nodes.
Option D:	A different DBMS is used at each location and data are distributed across all
	nodes.
Q3.	Storing a separate copy of the database at multiple locations is which of the
ŲS.	following?
Option A:	Data Replication
Option B:	Horizontal Partitioning
Option C:	Vertical Partitioning
Option D:	Horizontal and Vertical Partitioning
Q4.	A distributed database is which of the following?
Option A:	It is a single logical database that is spread to multiple locations and is
	interconnected by a network
Option B:	It is a loose collection of file that is spread to multiple locations and is
	interconnected by a network
Option C:	It is a single logical database that is limited to one location.

Option D:	It is a loose collection of file that is limited to one location
Q5.	The protocol is used by the DP to roll back and/or roll forward transactions
	with the help of the system's transaction log entries.
Option A:	PREPARE-COMMIT-ROLLBACK
Option B:	DO-PREPARE-COMMIT
Option C:	COMMIT-ABORT
Option D:	DO-UNDO-REDO
Q6.	In the statistical generation mode, the DDBMS automatically evaluates and updates the statistics after each access.
Option A:	static
Option B:	dynamic
Option C:	manual
Option D:	rule-based
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Q7.	A query optimization algorithm is based on a set of user-defined rules to determine the best query access strategy.
Option A:	statistically based
Option B:	rule-based
Option C:	manual
Option D:	dynamic
Q8.	transparency exists when the end user or programmer must specify both the fragment names and their locations.
Option A:	Local mapping
Option B:	Location
Option C:	Performance
Option D:	Transaction
Q9.	A(n) database stores each database fragment at a single site.
Option A:	partially replicated
Option B:	instance replicated
Option C:	fully replicated
Option D:	unreplicated
010	Under the scenario, multiple processes run on different computers sharing
Q10.	
Ontion A.	a single data repository.
Option A:	single-site processing, single-site data
Option B:	multiple-site processing, single-site data
Option C:	single-site processing, multiple-site data
Option D:	multiple-site processing, multiple-site data
Q11.	A distributed allows a transaction to reference several different remote
	sites

Option C: data location Option D: transaction  C12. The commit protocol guarantees that if a portion of a transaction operation cannot be committed, all changes made at the other sites participating in the transaction will be undone to maintain a consistent database state Option A: replicated Option B: two-phase Option C: remote Option D: distributed  Q13. Which of the following concurrency control protocol is suitable for an application where frequency of read operation is much greater than that of write operation? Option A: Majority protocol Option B: Biased protocol Option D: Single lock protocol Option D: Single lock protocol Option A: Shared Memory Option A: Shared Memory Option B: Shared Disk Option C: Shared Mothing Option D: Hierarchical  Q15. Global Wait-for graph is used for in Distributed database. Option A: Handling concurrency control Option B: Handling failures Option C: Handling integrity Option D: Handling failures Option C: Handling integrity Option D: Deadlock will not occur Option B: Concurrency control can be avoided Option C: Atomicity, i.e, all-or-nothing commits at all sites Option C: The processor is the software component residing on each computer that stores and retrieves data located at the site. Option B: Intervork	Option B:	site
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Option B: network		
Option B: network	Option A:	transaction
	•	
Option C: data	•	
Option D: management	-	
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Q18.	The process of finding good strategy for processing a query
Option A:	Query Optimization
Option B:	Query processing
Option C:	Query management
Option D:	Query cost
Q19.	The operation of natural joins are
Option A:	commutative
Option B:	Associative
Option C:	Distributive
Option D:	Conjunctive
Q20.	Commit and rollback are related to
Option A:	data consistency
Option B:	data integrity
Option C:	data sharing
Option D:	data security
Q21.	Ensuring isolation property is the responsibility of the
Option A:	Recovery-management component of the DBMS
Option B:	Concurrency-control component of the DBMS
Option C:	Transaction-management component of the DBMS
Option D:	Buffer management component in DBMS
Q22.	A sophisticated locking mechanism known as 2-phase locking which includes
	Growing phase and
Option A:	Shrinking Phase
Option B:	Release phase
Option C:	Commit phase
Option D:	Acquire Phase
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Q23.	Which of the following is a disadvantage of replication?
Option A:	Reduced network traffic
Option B:	If the database fails at one site, a copy can be located at another site.
Option C:	Each site must have the same storage capacity.
Option D:	Each transaction may proceed without coordination across the network.
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Q24.	Which of the following is not one of the stages in the evolution of distributed
	DBMS?
Option A:	Unit of work
Option B:	Remote unit of work
Option C:	Distributed unit of Work
Option D:	Distributed request
Q25.	A semijoin is which of the following?

Option A:	Only the joining attributes are sent from one site to another and then all of the rows are returned.
Option B:	All of the attributes are sent from one site to another and then only the required rows are returned.
Option C:	Only the joining attributes are sent from one site to another and then only the required rows are returned.
Option D:	All of the attributes are sent from one site to another and then all of the rows are returned.