Sample Questions

Computer Engineering

Subject Name: Distributed Computing Multiple Choice Questions **Semester: VIII**

Choose the correct option for following questions. All the Questions carry equal marks	
1.	and are used to hide the access and location of the system.
Option A:	access transparency, location transparency.
Option B:	migration transparency, replication transparency
Option C:	network transparency, location transparency
Option D:	failure transparency, network transparency
2.	The two popular remote object invocation models are
Option A:	RPC and RMI
Option B:	CORBA and RMI
Option C:	MOM and RPC
Option D:	MPI and MOM
3.	In distributed systems, a logical clock is associated with
Option A:	each instruction
Option B:	each register
Option C:	each process
Option D:	none of the mentioned
4.	Process transfer policy in Load-balancing algorithms is
Option A:	Determines how to exchange load information among nodes
Option B:	Determines to which node the transferable process should be sent
Option C:	Determines the total number of times a process can migrate
Option D:	Determines whether to execute a process locally or remotely

5.	Client centric consistency model useful in applications where
Option A:	Data is static
Option B:	One client always updates data store
Option C:	Data updation is not required
Option D:	Data storage is not required
6.	In distributed file system, file name does not reveal the file's
Option A:	Local name
Option B:	Global name
Option C:	Cache location
Option D:	Physical storage location
7.	The Ricart & Agrawala distributed mutual exclusion algorithm is:

Option A:	More efficient and more fault tolerant than a centralized algorithm.
Option B:	More efficient but less fault tolerant than a centralized algorithm.
Option C:	Less efficient but more fault tolerant than a centralized algorithm.
Option D:	Less efficient and less fault tolerant than a centralized algorithm.
8.	The kernel is of user threads.
Option A:	a part of
Option B:	the creator of
Option C:	unaware of
Option D:	aware of

9.	What is stub?
Option A:	transmits the message to the server where the server side stub receives the message and invokes procedure on the server side
Option B:	Perform encryption and decryption
Option C:	Perform Routing operation
Option D:	Perform Retransmission of message
10.	In a distributed file system, is mapping between logical and physical objects.
Option A:	Client interfacing
Option B:	<u>Naming</u>
Option C:	Migration
Option D:	Heterogeneity
11.	RPC is an example of
Option A:	synchronous communication
Option B:	asynchronous communication
Option C:	persistent communication
Option D:	time independent operation
	(Traditional RPC waits/blocks execution until request is finished)
12.	What is a remote object reference?
Option A:	The variables referenced by the Method Invocation
Option B:	An identifier for the skeleton referred by a client
Option C:	An identifier for the proxy referenced by a client
Option D:	An identifier for a remote object that is valid throughout a distributed system

13.	In a distributed file system, is mapping between logical and physical objects.
Option A:	Client interfacing
Option B:	<u>Naming</u>
Option C:	Migration
Option D:	Heterogeneity
14.	Concurrency transparency is
Option A:	Where users cannot tell where an object is physically located in the system
Option B:	Hide differences in data representation and how an object is accessed
Option C:	Hide that an object may be shared by several independent users
Option D:	Hide that an object is replicated
15.	Client centric consistency model useful in applications where
Option A:	Data is static
Option B:	One client always updates data store
Option C:	Data updates not required in the local store
Option D:	Data storage is not required
16.	The ring election algorithm works by
Option A:	Having all nodes in a ring of processors send a message to a coordinator who will elect the leader
Option B:	Sending a token around a set of nodes. Whoever has the token is the coordinator.
Option C:	Sending a message around all available nodes and choosing the first one on the resultant list
Option D:	Building a list of all live nodes and choosing the largest numbered node in the list

17.	What is a stateless file server?
Option A:	It keeps tracks of states of different objects
Option B:	It maintains internally no state information at all
Option C:	It maintains only client information in them
Option D:	It maintains only client access information in them
18.	In which file model, a new version of the file is created each time a change is made to the file contents and the old version is retained unchanged
Option A:	Unstructured files
Option B:	Structured files
Option C:	Immutable files
Option D:	Mutable files
19.	The Ricart Agrawala distributed mutual exclusion algorithm is:
Option A:	More efficient and more fault tolerant than a centralized algorithm.
Option B:	More efficient but less fault tolerant than a centralized algorithm.
Option C:	Less efficient but more fault tolerant than a centralized algorithm.
Option D:	Less efficient and less fault tolerant than a centralized algorithm.
20.	Which of the following is NOT a technique for achieving scalability
Option A:	<u>Centralization</u>
Option B:	Distribution
Option C:	Replication
Option D:	Caching

21.	A layer which lies between an operating system and the applications running on it is called as -
Option A:	Firmware
Option B:	Hardware
Option C:	Software
Option D:	<u>Middleware</u>

22.	Goals of Distributed system does not include
Option A:	Resource sharing
Option B:	Access to remote resources
Option C:	Sharing memory space
Option D:	Concurrent process execution
23.	which of the following is not the commonly used semantics for ordered delivery of multicast messages
Option A:	Absolute ordering
Option B:	Persistent ordering
Option C:	Consistent ordering
Option D:	Casual ordering
24.	The type of transparency that enables resources to be moved while in use without being noticed by users and application is
Option A:	Location Transparency
Ontion D.	Migration Transparency
Option B:	The state of the s
Option C:	Relocation Transparency
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25.	A paradigm of multiple autonomous computers, having a private memory, communicating through a computer network, is known as
Option A:	Distributed computing
Option B:	Cloud computing
Option C:	Centralized computing
Option D:	Parallel computing
26.	Following is not the common mode of communication in Distributed system
Option A:	RPC
Option B:	RMI
Option C:	Message Passing
Option D:	Shared memory
27.	Following is not the physical clock synchronization algorithm
Option A:	Lamport's Scalar Clock synchronization
Option B:	Christians clock synchronization
Option C:	Berkley clock synchronization
Option D:	Network time protocol
Option D:	
Option D:	
	Network time protocol
28.	Network time protocol Distributed Mutual Exclusion Algorithm does not use
28. Option A:	Network time protocol Distributed Mutual Exclusion Algorithm does not use Coordinator process
28. Option A: Option B:	Network time protocol Distributed Mutual Exclusion Algorithm does not use Coordinator process Token
28. Option A: Option B: Option C:	Network time protocol Distributed Mutual Exclusion Algorithm does not use Coordinator process Token Logical clock for event ordering
28. Option A: Option B: Option C:	Network time protocol Distributed Mutual Exclusion Algorithm does not use Coordinator process Token Logical clock for event ordering
28. Option A: Option B: Option C:	Network time protocol Distributed Mutual Exclusion Algorithm does not use Coordinator process Token Logical clock for event ordering

29. Vector Timestamp Ordering Algorithm is an example of-

Option A:	Centralized Mutual Exclusion
Option B:	Distributed Mutual Exclusion
Option C:	Physical Clock Synchronization
Option D:	Logical Clock Synchronization
30.	What is fault tolerance in distributed Computing?
Option A:	Ability of system to continue functioning in the event of a complete failure.
Option B:	Ability of system to continue functioning in the event of a partial failure.
Option C:	Ability of system to continue functioning when system is properly working.
Option D:	Ability of distributed system to work in all conditions.
31.	In Task Assignment Approach, we have to
Option A:	Minimize IPC cost
Option B:	Maximize IPC cost
Option C:	Fix IPC cost
Option D:	Keep constant IPC cost
32.	Backward error recovery requires
Option A:	Grouping
Option B:	Assurance
Option C:	Check pointing
Option D:	Validation

33.	Which of these consistency models does not use synchronization operations?
Option A:	<u>Sequential</u>
Option B:	Weak
Option C:	Release
Option D:	Entry
34.	Which is not possible in distributed file system?
Option A:	File replication
Option B:	<u>Migration</u>
Option C:	Client interface
Option D:	Remote access
35.	X.500 is a
Option A:	<u>Directory services</u>
Option B:	Naming services
Option C:	Replication services
Option D:	Consistency services
36.	A DFS is executed as a part of
Option A:	System specific program
Option B:	Operating system
Option C:	File system
Option D:	Application program

37. Processes on the remote systems are identified by-

Option A:	Host ID
Option B:	Identifier
Option C:	Host name and identifier
Option D:	Process ID
38.	The function of load-balancing algorithm is
Option A:	It tries to balance the total system load by transparently transferring the workload from heavily loaded nodes to lightly loaded
Option B:	It helps the process to know the time by simply making a call to the operating system.
Option C:	allows a process to access named entity
Option D:	It synchronizes the clocks
39.	A Multi-threaded Server has following threads
Option A:	Dispatcher Thread
Option B:	Client Thread
Option C:	Worker Thread
Option D:	Client and Server Thread
40.	Maekawa's Mutual Exclusion Algorithm is based on
Option A:	Coordinator selection
Option B:	Token
Option C:	<u>Voting</u>
Option D:	Tickets