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Department of Computer Science and Engineering CS8603 Distributed Systems Unit I - MCQ Bank

- 1. The processors are having different speeds and each runs different operating system but cooperate with one another by offering services for solving a problem jointly.
 - a. loosely coupled
 - b. tightly coupled
 - c. both a and b
 - d. none of the above
- 2. A ______is the execution of processes across the distributed system to collaboratively achieve a common goal which is also termed a computation or a run.
 - a. distributed execution
 - b. distributed system
 - c. distributed computing
 - d. none of the above
- 3. RPC software do not sends a message across the network to invoke the remote procedure. a. True
 - b. b. **False**
- 4. Reliability is defined in the aspect of
 - a. availability
 - b. integrity
 - c. fault-tolerance
 - d. all of the above
- 5. Flynn identified _____ processing modes.
 - a. Four
 - b. Three
 - c. Two
 - d. Five
- 6. In Shared memory systems there is a <u>throughout the System</u>.
 - a. common shared address space
 - b. unique address space
 - c. two shared address space
 - d. none of the above
- 7. A distributed system is a collection of independent entities that cooperate to solve a problem that cannot be individually solved.

a.True

b. False

- 8. The challenges pertain to providing accurate____, and to providing a variant of time, called_____.
 - a. physical time and logical time
 - b. logical time and physical time
 - c. relative time and logical time
 - d. logical time and relative time
- 9. _____is essential for the distributed processes to overcome the limited
- observation of the system state from the viewpoint of any one process.

a. Synchronization

- a. Asynchronization
- b. Physical clock synchronization
- c. Logical clock synchronization
- 10. This is a clearly a synchronization problem because access to the critical resource(s) has to be coordinated.
 - a. Mutual exclusion
 - b. Semaphores
 - c. Deadlock
 - d. Synchronization
- 11. The ability to move data around in the system, based on the access pattern of the users.
 - a. Data migration
 - b. Computation migration
 - c. Distributed scheduling
 - d. None of the above
- 12. ____is important for mission-critical applications, to accomplish the task execution on schedule.
 - a. Distributed scheduling
 - b. Real-time scheduling
 - c. Computation migration
 - d. None of the above

13. A _____consists of a set of processors that are connected by a communication network.

- a. distributed system
- b. distributed network
- c. distributed computing
- d. both a and b
- 14. The logical clock C is a function that maps an event e to the time domain T, denoted as C(e) and called the____, and is defined as follows: C: H T
 - a. timestamp of e
 - b. clock of e
 - c. time domain
 - d. time clock

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- 15. The ______is widely used for clock synchronization on the Internet, uses the offset delay estimation method.
 - a. Network Time Protocol
 - b. Mobile Network Base Station
 - c. Network Synchronization
 - d. Primary Synchronization
- 16. The <u>______of</u> a distributed system is a collection of the <u>_____of</u> its processes and the messages in the communication channels.
 - a. global state and local state
 - b. local state and global state
 - c. initial state and global state
 - d. global state and initial state
- - a. three
 - b. four
 - c. two
 - d. six

18. _____if and only if the events occur at the same instant in physical time.

- a. Physical concurrency
- b. Logical concurrency
- c. Physical state
- d. Logical state
- 19. Only authorized processes can access information.

a. confidentiality

- b. Authentication
- c. Availability
- d. None of the above
- 20. Whether the information is from the correct source, identity.
 - a. confidentiality

b. Authentication

- c. Availability
- d. None of the above
- 21. Maintaining allowed access to services despite malicious actions
 - a. confidentiality
 - b. Authentication
 - c. Availability
 - d. None of the above

22. In distributed system, each processor has its own

- a. local memory
- b. clock
- c. both local memory and clock
- d. none of the mentioned

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23. The capability of a system to adapt the increased service load is called _____

a. scalability

- b. tolerance
- c. capacity
- d. none of the mentioned
- 24. Within the network we can have a number of computers sharing resources maintained by independent administrators, called as
 - a. User
 - b. Workgroup
 - c. Both
 - d. None
- 25. If one site fails in distributed system, ____
 - a. the remaining sites can continue operating
 - b. all the sites will stop working
 - c. directly connected sites will stop working
 - d. none of the mentioned

