

Time left 0:09:56

Question 1

Not yet answered

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Jenkins is primarily used for:

- a. Monitoring servers
- b. Cloud provisioning
- c. Password security
- d. Continuous Integration and Delivery

Question 2

Not yet answered

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ARP resolves:

- a. MAC to IP
- b. Port to MAC
- c. IP to MAC
- d. Gateway IP

Question 3

Not yet answered

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Which OSI layer is responsible for logical addressing and routing?

- a. Session
- b. Data Link
- c. Transport
- d. Network

Question 4

Not yet answered

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Which command creates and switches to a new branch?

- a. git checkout -b new
- b. git init new
- c. git branch new
- d. git checkout new

Question 5

Not yet answered

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Checked exceptions must be:

- a. Caught or declared
- b. Logged only
- c. Suppressed
- d. Ignored

Question 6

Not yet answered

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Which method starts a new thread?

- a. run()
- b. start()
- c. begin()
- d. init()

Question 7

Not yet answered

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A linked list allows:

- a. Fast random access
- b. Fixed-size allocation
- c. Dynamic size with easy insertion
- d. Lower memory overhead

Question 8

Not yet answered

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Which IPC mechanism is the fastest because no kernel-level copying occurs?

- a. Signal
- b. Message Queue
- c. Shared Memory
- d. Pipe

Question 9

Not yet answered

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Which interface allows duplicates and maintains insertion order?

- a. SortedSet
- b. Set
- c. List
- d. Map

Question 10

Not yet answered

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BFS uses which data structure?

- a. Heap
- b. Queue
- c. Array
- d. Stack

Question 11

Not yet answered

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Compaction helps eliminate:

- a. Swap memory
- b. External fragmentation
- c. Cache conflicts
- d. Internal fragmentation

Question 12

Not yet answered

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Which AWS service provides object storage?

- a. EFS
- b. EC2
- c. DynamoDB
- d. S3

Question 13

Not yet answered

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A page fault occurs when:

- a. TLB is full
- b. CPU switches context
- c. Page is in memory
- d. Page is on disk

Question 14

Not yet answered

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Method overriding represents:

- a. Runtime polymorphism
- b. Static binding
- c. Early binding
- d. Compile-time polymorphism

Question 15

Not yet answered

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A Docker image is a:

- a. Snapshot of RAM
- b. Virtual machine
- c. Running container
- d. Template for creating containers

Question 16

Not yet answered

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Which scheduling algorithm preempts the CPU when a new process arrives with a shorter burst time?

- a. SRTF
- b. FCFS
- c. Round Robin
- d. Priority (Non-Preemptive)

Question 17

Not yet answered

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In a BST, which traversal gives sorted order?

- a. Level-order
- b. Post-order
- c. Pre-order
- d. In-order

Question 18

Not yet answered

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TCP 3-way handshake follows:

- a. FIN → FIN-ACK → ACK
- b. SYN → SYN-ACK → ACK
- c. ACK → SYN → FIN
- d. SYN → ACK → FIN

Question 19

Not yet answered

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Stacks follow:

- a. LIFO
- b. FILO
- c. FIFO
- d. Both LIFO and FILO

Question 20

Not yet answered

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Which device learns MAC addresses?

- a. Hub
- b. Router
- c. Gateway
- d. Switch

Question 21

Not yet answered

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Which system call replaces the current process image with a new program?

- a. wait()
- b. exec()
- c. fork()
- d. exit()

Question 22

Not yet answered

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In constructor chaining, this() must be:

- a. Last statement
- b. Optional
- c. First statement
- d. Outside constructor

Question 23

Not yet answered

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Which Kubernetes object exposes a deployment?

- a. ConfigMap
- b. ReplicaSet
- c. Service
- d. Pod

Question 24

Not yet answered

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In a max heap, the largest element is at:

- a. Last node
- b. Index 0
- c. Random position
- d. A leaf

Question 25

Not yet answered

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A /26 network provides how many usable host addresses?

- a. 62
- b. 32
- c. 64
- d. 30