

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

Marked out of 1.00

ARP resolves:

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

Question 3

Not yet answered

Marked out of 1.00

Which OSI layer is responsible for logical addressing and routing?

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

Question 4

Not yet answered

Marked out of 1.00

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

Marked out of 1.00

Checked exceptions must be:

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

Question 6

Not yet answered

Marked out of 1.00

Which method starts a new thread?

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

Question 7

Not yet answered

Marked out of 1.00

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

Marked out of 1.00

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

Marked out of 1.00

Which interface allows duplicates and maintains insertion order?

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

Question 10

Not yet answered

Marked out of 1.00

BFS uses which data structure?

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

Question 11

Not yet answered

Marked out of 1.00

Compaction helps eliminate:

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

Question 12

Not yet answered

Marked out of 1.00

Which AWS service provides object storage?

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

Question 13

Not yet answered

Marked out of 1.00

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

Marked out of 1.00

Method overriding represents:

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

Question 15

Not yet answered

Marked out of 1.00

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

Marked out of 1.00

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

Marked out of 1.00

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

Marked out of 1.00

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

Marked out of 1.00

Stacks follow:

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

Question 20

Not yet answered

Marked out of 1.00

Which device learns MAC addresses?

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

Question 21

Not yet answered

Marked out of 1.00

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

Marked out of 1.00

In constructor chaining, this() must be:

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

Question 23

Not yet answered

Marked out of 1.00

Which Kubernetes object exposes a deployment?

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

Question 24

Not yet answered

Marked out of 1.00

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

Marked out of 1.00

A /26 network provides how many usable host addresses?

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