AI Hardware Post-Assessment

Question 1

Which two environments require ULL? (Choose two.)

Parte superior do formulário

* collaboration tools
* cloud storage
* data backup
* general business applications
* high-frequency financial trading
* high-performance computing
* video conferencing

Question 2

What is the primary function of a DPU?

Parte superior do formulário

* It renders graphics.
* It offloads data-intensive tasks from the CPU and GPU.
* It executes single-threaded tasks.
* It enhances video editing performance.

Question 3

Which two characteristics are associated with a CPU? (Choose two.)

Parte superior do formulário

* It contains thousands of smaller, efficient cores.
* It executes arithmetic and other instructions.
* It has high-bandwidth memory.
* It has high clock speeds.
* It offloads data-intensive tasks from the CPU and GPU.
* It is optimized for single-threaded performance.
* It is specialized for parallel processing.

Question 4

What is the primary advantage of using a discrete GPU over an integrated GPU?

Parte superior do formulário

* higher performance for resource-intensive applications
* lower power consumption
* reduced heat generation
* smaller physical size

Parte inferior do formulário

Question 5

Which two features are associated with SmartNICs? (Choose two.)

Parte superior do formulário

* They accelerate software-defined networking stacks.
* They execute single-threaded tasks.
* They have high clock speeds.
* They perform matrix calculations**.**
* They provide security with inline encryption and decryption.
* They render high-quality graphics.
* support virtualized data centers

Question 6

Which strategy is essential for reducing Total Cost of Ownership (TCO) in AI/ML compute resources?

Parte superior do formulário

* over-provisioning
* frequent hardware upgrades
* exclusive use of on-premises infrastructure
* utilizing elastic scaling

Question 7

What is the role of a container orchestrator in managing compute resources?

Parte superior do formulário

* to automate the lifecycle management of containers
* to provide hardware-level isolation for VMs
* to deploy serverless applications
* to manage network traffic between physical servers

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Parte inferior do formulário

Question 8

Which three elements are essential for AI/ML cluster networking to support high-performance requirements? (Choose three.)

Parte superior do formulário

* use of traditional ToR switches
* spine-leaf architecture
* direct GPU connections to the network fabric
* centralized network management
* low-latency, high-bandwidth links
* high-availability clustering

Question 9

* Which feature of the Cisco UCS C-Series rack servers enhances the performance of deep-learning tasks?
* Parte superior do formulário
* Modular LAN on Motherboard (mLOM)
* Intel AMX
* Double Data Rate 5 (DDR5) Memory
* Unified Management with Cisco Intersight

Question 10

Which two strategies can be employed to efficiently share GPU resources in high-performance computing environments? (Choose two.)

Parte superior do formulário

* GPU virtualization
* over-provisioning
* manual resource allocation
* exclusive hardware usage
* multi-Instance GPU (MIG)
* static resource partitioning

Question 11

In the Cisco Compute Hyperconverged with Nutanix solution, what role does Cisco UCS Compute serve?

Parte superior do formulário

* It provides a unified storage solution.
* It enhances workload mobility.
* It combines compute and networking into a single platform.
* It manages global visibility and fleet management.

Parte inferior do formulário

Question 12

What is one of the primary benefits of using Cisco and Nutanix's unified approach to hybrid multicloud?

Parte superior do formulário

* It provides only manual support capabilities.
* It includes a best-in-class health monitoring system.
* It offers a single type of server deployment option.
* It simplifies operations with a holistic management solution.

Question 13

Which technology in Run:ai allows the partitioning of NVIDIA GPUs into separate instances?

Parte superior do formulário

* GPUDirect RDMA
* Dynamic MIG
* GPUDirect Storage
* CUDA

Parte inferior do formulário

Question 14

What two benefits does the integration of Run:ai with Cisco UCS X-Series provide for AI workload management? (Choose two.)

Parte superior do formulário

* dynamic resource allocation
* enhanced compute-only node flexibility
* manual scaling capabilities
* improved GPU memory partitioning
* advanced data encryption
* simplified workload management

Question 15

What are three key functions of a hypervisor? (Choose three.)

Parte superior do formulário

* application development
* data encryption
* isolation
* network packet forwarding
* physical server management
* portability
* resource allocation

Question 16

Which factor is most important when considering the deployment of HCI?

Parte superior do formulário

* ensuring that only high-end, enterprise-grade hardware is used for all components
* evaluating the scalability options to accommodate future growth
* choosing a single vendor for all hardware and software components to avoid integration issues
* limiting the deployment to on-premises environments to maintain control over resources

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Question 17

What is the primary function of a container engine in virtualization?

Parte superior do formulário

* It manages physical servers and their network connections.
* It manages the lifecycle of containers, including their creation, deployment, and execution.
* It manages VM snapshots and backups.
* It runs multiple operating systems on a single physical machine.

Question 18

* Which three elements included in a VRF instance? (Choose three.)
* Parte superior do formulário
* forwarding table
* routing protocol instances
* routing table
* storage allocation
* virtual CPU
* virtual NIC
* virtual RAM

Parte inferior do formulário

Question 19

Which two components are critical for optimizing the performance and scalability of AI data storage strategies? (Choose two.)

Parte superior do formulário

* data compression algorithms
* parallel file systems
* high-speed SSDs
* manual data entry protocols
* optical disc storage
* proprietary software solutions

Question 20

What is an essential characteristic of a data storage strategy for AI clusters concerning scalability?

Parte superior do formulário

* It relies solely on on-premises storage solutions.
* It uses distributed file systems to support growth.
* It maintains data exclusively on physical drives.
* It focuses on manual data management processes.

Parte inferior do formulário

Question 21

Which three features are associated with Fibre Channel over Ethernet (FCoE) in data storage infrastructure? (Choose three.)

Parte superior do formulário

* separate physical networks for Fibre Channel and Ethernet
* encapsulation of Fibre Channel frames into Ethernet frames
* simplified cabling and reduced equipment needs
* increased latency compared to traditional networks
* dependence on proprietary network hardware
* unified infrastructure for LAN and SAN traffic

Question 22

What is a primary benefit of using software-defined storage in AI workloads?

Parte superior do formulário

* It mandates the use of traditional SAN systems.
* It limits flexibility by enforcing fixed hardware configurations.
* It requires extensive manual configuration for data management.
* It abstracts and virtualizes physical storage hardware.

Question 23

Which protocol is essential for communication between AI nodes?

Parte superior do formulário

* HTTP
* FTP
* RoCEv2
* SNMP

Question 24

What are three primary benefits of using Cisco NDFC for deploying AI-ready networks? (Choose three.)

Parte superior do formulário

* manual monitoring of network performance
* increased network security through additional firewalls
* automated application of consistent QoS configuration
* streamlined deployment of AI-ready networks
* simplified management of network devices
* reduction of physical hardware requirements

Question 25

What is the primary function of the Cisco Nexus Dashboard Fabric Controller (NDFC) in setting up an AI cluster network?

Parte superior do formulário

* to streamline the deployment of AI-ready networks with QoS, PFC, and ECN mechanisms
* to manually configure QoS policies on each network device
* to exclusively manage physical server connections
* to automate software updates on AI servers

Parte inferior do formulário

Question 26

Which command is used to verify if the QoS configuration is applied to a switch?

Parte superior do formulário

* show version
* show interfaces
* show running-config
* show run ipqos

Question 27

Which three components are essential for the functionality of a Retrieval Augmented Generation (RAG) system? (Choose three.)

Parte superior do formulário

* graphical user interface
* embedding model
* compression algorithm
* vector database
* network bandwidth optimizer
* inference model

Question 28

In the RAG setup described, why is it important to choose an appropriate chunk size?

Parte superior do formulário

* to enhance the graphical performance of the system
* to reduce the cost of database storage
* to ensure each chunk captures semantically similar content
* to align with the frequency of database queries

Parte inferior do formulário

Question 29

What is the primary purpose of Retrieval Augmented Generation (RAG) in the context of GPT models?

Parte superior do formulário

* to reduce the computational cost of training GPT models
* to replace existing GPT models with more efficient alternatives
* to improve the graphical interface of GPT applications
* to enhance the accuracy of generated responses by grounding them with factual data

Parte inferior do formulário

Question 30

What is a potential disadvantage of setting a high temperature value for GPT responses?

Parte superior do formulário

* It may limit the number of responses generated.
* It restricts the type of queries that can be processed.
* It can lead to more creative but less accurate responses.
* It causes the interface to become unresponsive.

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Parte inferior do formulário

Parte inferior do formulário

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