**AI Infrastructure Requirements and Compliance Post-Assessment**

Question 1

What is the primary function of the Cisco Nexus HyperFabric AI cluster solution?

Parte superior do formulário

* to provide high-speed optical connections
* to simplify deployment and operations across AI infrastructure
* to enhance manual data handling processes
* to reduce the need for GPUs in AI workloads

Parte inferior do formulário

Question 2

Which component in modern AI infrastructure is specifically designed to accelerate AI compute networking, data access, and security workloads?

Parte superior do formulário

* Cisco Nexus 9000 Series switches
* NVIDIA BlueField-3 SuperNICs
* Cisco UCS rack servers
* SSD storage

Parte inferior do formulário

Question 3

What are the two key components of a modern AI infrastructure that support increased processing demands? (Choose two.)

Parte superior do formulário

* TPUs and ASICs
* manual data handling processes
* open-source frameworks
* on-premises deployment
* Proprietary algorithms
* Low-speed networking

Question 4

What is a key characteristic of modern AI infrastructure that differentiates it from traditional AI infrastructure?

Parte superior do formulário

* use of proprietary software
* manual data handling
* use of TPUs and ASICs
* Use of non-proprietary software

Parte inferior do formulário

Question 5

In the context of traditional AI infrastructure, what is the primary role of GPUs?

Parte superior do formulário

* accelerating graphics rendering
* reducing storage costs
* enhancing network bandwidth
* computing algorithmic sums for deep learning

Parte inferior do formulário

Question 6

Which two elements are critical for ensuring high performance in AI/ML data centers? (Choose two.)

Parte superior do formulário

* high-speed optical connections
* 20:1 oversubscription ratio
* congestion management mechanisms like ECN and PFC
* proprietary software
* manual data processing
* low-capacity storage

Question 7

Which platform automates the deployment, scaling, and management of containerized AI workloads?

Parte superior do formulário

* AWS
* Kubernetes
* Azure
* Google Cloud Platform

Parte inferior do formulário

Question 8

Which of the following is a key advantage of using a multicloud strategy for AI workloads?

Parte superior do formulário

* increased dependency on a single provider
* enhanced disaster recovery capabilities
* simplified compliance requirements
* extended contracts

Question 9

Which three tools are used for data synchronization in a multicloud AI environment? (Choose three.)

Parte superior do formulário

* Apache Kafka
* AWS DataSync
* Google Cloud Dataflow
* VMware vMotion
* NetApp Cloud Volumes
* Google Spanner

Question 10

Which data center environment is best suited to prevent AI vendor lock-in?

Parte superior do formulário

* active-active
* cloud-based
* active-standby
* one that is designed for interoperability

Parte inferior do formulário

Question 11

Which four orchestration technologies are used for automating AI workload mobility? (Choose four.)

Parte superior do formulário

* Kubernetes
* Docker
* Apache Mesos
* Secure Copy Protocol (SCP)
* Red Hat OpenShift
* Apache Airflow
* Azure

Question 12

Which dependency should database administrators consider when migrating to another AI-focused vendor?

Parte superior do formulário

* data formats
* human capital
* extended contracts
* manual methods

Parte inferior do formulário

Question 13

Which three aspects of data sovereignty are crucial for protecting individual rights? (Choose three.)

Parte superior do formulário

* legal compliance
* economic impact
* privacy protection
* trust and accountability
* data localization
* corporate governance

Question 14

Identify four key elements that contribute to a robust framework for AI compliance, governance, and regulations. (Choose four.)

Parte superior do formulário

* knowledge
* bias mitigation
* data sovereignty
* human oversight
* economic impact
* transparency
* environmental impact

Question 15

Which two of the following are examples of compliance standards in AI? (Choose two)

Parte superior do formulário

* ISO/IEC 38505
* Ethical AI Principles
* IEEE 7010-2020
* Corporate Governance
* NIST AI Risk Management
* GDPR

Question 16

What is the primary focus of AI governance?

Parte superior do formulário

* following specific legal standards
* managing AI systems ethically and holistically
* creating external rules for AI use
* protecting personal health information

Parte inferior do formulário

Question 17

Which of the following is an example of a compliance standard for AI?

Parte superior do formulário

* Ethical AI Principles
* NIST AI Risk Management Framework
* ISO/IEC 38505
* GDPR

Question 18

What does the CLOUD Act allow U.S. law enforcement to do?

Parte superior do formulário

* access data stored within the United States only
* access data stored abroad
* prevent data from being transferred internationally
* ensure compliance with GDPR

Parte inferior do formulário

Question 19

Which three of the following are benefits of adopting Green AI practices? (Choose three.)

Parte superior do formulário

* sustainable practices
* increased model complexity
* climate change mitigation
* higher energy consumption
* energy optimization
* increased data storage requirements

Question 20

What is a key characteristic of AI accelerators?

Parte superior do formulário

* They are general-purpose processors.
* They are primarily used for data storage.
* They are less efficient than CPUs.
* They are designed to process AI workloads specifically.

Parte inferior do formulário

Question 21

What is a primary benefit of Green AI?

Parte superior do formulário

* increased computational power
* reduced energy consumption
* higher accuracy in AI models
* faster processing speeds

Parte inferior do formulário

Question 22

Which of the following best describes Green AI?

Parte superior do formulário

* AI that prioritizes speed and accuracy over environmental impact
* AI that focuses on reducing environmental impact through energy-efficient models
* AI that uses the maximum computational power available
* AI that is primarily used for financial forecasting

Parte inferior do formulário

Question 23

Which four of the following are types of AI accelerators? (Choose four.)

Parte superior do formulário

* graphic processing units (GPUs)
* central processing units (CPUs)
* tensor processing units (TPUs)
* neural processing units (NPUs)
* random-access memory (RAM)
* vision processing Units (VPUs)
* non-volatile RAM (NVRAM)

Question 24

* Which AI accelerator is designed to offload the graphics workload from the CPU?
* Parte superior do formulário
* TPU
* GPU
* NPU
* VPU

Question 25

Why is using pre-trained models generally considered a more cost-effective approach for businesses compared to training models from scratch?

Parte superior do formulário

* Pre-trained models require fewer computational resources and allow for easier scalability.
* Training models from scratch ensures more accurate results for all types of tasks.
* Pre-trained models require the same number of GPUs as training models from scratch.
* Fine-tuning pre-trained models is more expensive than training a new model from scratch.

Parte inferior do formulário

Question 26

Which statement about Cisco HyperFabric is true if you compare it to Cisco Nexus Dashboard-based networking?

Parte superior do formulário

* Cisco HyperFabric is more expensive but offers better performance.
* Cisco HyperFabric is simpler to deploy and manage, making it ideal for new networks.
* Cisco Nexus Dashboard is designed for existing, complex networks.
* Cisco HyperFabric is specifically designed for upgrading legacy systems.

Parte inferior do formulário

Question 27

When deploying AI workloads on a Cisco C245 M8 server equipped with two NVIDIA H100-80 GPUs, what is a critical factor to consider regarding power consumption and rack setup?

Parte superior do formulário

* The server can run on less than 500 watts, even under full load.
* The server's power consumption is 1500 or more watts under intensive workloads.
* The server's GPUs have minimal impact on overall power consumption.
* Increasing power supply to the rack is always a feasible option, regardless of the data center's power constraints.

Parte inferior do formulário

Question 28

What is the primary advantage of the policy-based configuration offered through Cisco Intersight?

Parte superior do formulário

* It requires more manual configuration to ensure server customization.
* It allows customers to automate and standardize server configurations, enhancing consistency.
* It focuses solely on reducing costs, with minimal focus on security.
* It limits scalability by requiring individual server management.

Parte inferior do formulário

Question 29

What is the primary consideration when deciding whether to run AI workloads on-premises versus in the cloud?

Parte superior do formulário

* On-premises solutions require less initial investment compared to cloud platforms.
* Cloud platforms provide complete control over hardware configuration.
* On-premises solutions offer more control over data security and compliance, while cloud platforms offer better scalability and flexibility.
* Cloud platforms cannot handle high-performance AI workloads effectively.

Parte inferior do formulário

Question 30

Training a large-scale AI model like Meta’s LLaMA requires significant GPU resources. What is a primary factor in determining the number of GPUs needed for efficient training?

Parte superior do formulário

* the total number of hours the GPUs can run
* the cost of each GPU
* the model's size and parameter count
* the availability of open-source libraries

Parte inferior do formulário

Parte inferior do formulário

Parte inferior do formulário

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