**AI Data Considerations Post-Assessment**

Question 1

Which RDMA operation is used to transfer a message to a remote host's receive queue?

Parte superior do formulário

* RDMA Read
* RDMA Write
* RDMA Send
* RDMA Atomic

Parte inferior do formulário

Question 2

Which two components are part of the RDMA architecture stack? (Choose two.)

Parte superior do formulário

* Application Programming Interface (API)
* RDMA-capable Network Interface Card (NIC)
* Message Queue
* RDMA message service
* Data Link Layer
* Transport Layer
* Completion Queue

Question 3

Which version of RoCE allows traffic routing over IP fabrics?

Parte superior do formulário

* RoCEv1
* RoCEv2
* both RoCEv1 and RoCEv2
* neither RoCEv1 nor RoCEv2

Parte inferior do formulário

Question 4

Which feature of RoCEv2 enhances its scalability compared to RoCEv1?

Parte superior do formulário

* operates over Layer 2
* uses UDP encapsulation
* requires a lossless Ethernet fabric
* limited to a single Ethernet broadcast domain

Parte inferior do formulário

Question 5

Which two are key characteristics of RDMA message verbs? (Choose two.)

Parte superior do formulário

* requires the participation of the CPU of the remote host
* supported operations include RDMA Send and RDMA Receive
* supported operations include RDMA Reads, RDMA Writes, and RDMA Atomic
* operates asynchronously
* provides reliable transport only
* does not require memory registration

Question 6

What is the primary advantage of using RDMA over Converged Ethernet (RoCE) in AI applications?

Parte superior do formulário

* direct memory access
* higher cost
* increased latency
* lossy data transmission

Parte inferior do formulário

Question 7

Which two features of the UEC architecture enhance network performance for AI and HPC workloads? (Choose two.)

Parte superior do formulário

* flexible ordering
* increased latency
* limited scalability
* multipath packet spraying
* simple ECMP hashing
* stateless flow placement
* traditional Go-Back-N approach

Question 8

What is the primary benefit of using Cisco Silicon One ASIC in network switches?

Parte superior do formulário

* limited scalability
* unified fabric architecture
* increased operational complexity
* higher cost

Question 9

Which congestion management technique is recommended for maintaining a lossless Ethernet fabric in AI/ML networks?

Parte superior do formulário

* simple ECMP hashing
* WRED ECN
* stateless flow placement
* traditional Go-Back-N approach

Parte inferior do formulário

Question 10

Which two components are essential for creating a non-blocking network fabric for AI/ML workloads using Cisco Nexus switches? (Choose two.)

Parte superior do formulário

* Nexus 9200 Series switch
* Nexus 9332D-GX2B switch
* Nexus 93600CD-GX switch
* Nexus 9400 Series switch
* Nexus 9500 Series switch

Question 11

What is the primary purpose of ETS in a network?

Parte superior do formulário

* bandwidth management
* congestion management
* traffic shaping
* packet marking

Parte inferior do formulário

Question 12

What are two mechanisms that are used for congestion avoidance in Cisco Nexus 9000 Series switches? (Choose two.)

Parte superior do formulário

* WRED
* traffic shaping
* AFD
* classification
* PFC
* queuing and scheduling

Question 13

Which mechanism manages queue lengths by dropping lower-priority packets before the queue becomes full?

Parte superior do formulário

* LLQ
* WRED
* traffic shaping
* classification

Parte inferior do formulário

Question 14

What are two features that are part of the intelligent buffer management capabilities in Cisco Nexus 9000 Series switches? (Choose two.)

Parte superior do formulário

* DPP
* traffic shaping
* AFD
* classification and marking
* queuing and scheduling
* PFC

Question 15

Which mechanism is used to signal congestion between routed hops in a network?

Parte superior do formulário

* DSCP
* PFC
* LLQ
* WRED

Parte inferior do formulário

Question 16

What is the primary function of Priority Flow Control (PFC) in a network?

Parte superior do formulário

* to mark packets with ECN bits
* to prevent packet loss during congestion
* to increase the data transmission rate
* to drop packets randomly to avoid congestion

Parte inferior do formulário

Question 17

Which phase of the AI/ML workflow is characterized by high bandwidth and computational resource requirements?

Parte superior do formulário

* training
* inferencing
* model deployment
* data collection

Question 18

Which of the following metrics can be monitored with Cisco Nexus Dashboard Insights?

Parte superior do formulário

* bandwidth score
* congestion score
* jitter score
* packet reordering score

Parte inferior do formulário

Question 19

Which feature of Cisco Nexus Dashboard Insights helps in monitoring network latency and congestion?

Parte superior do formulário

* traffic analytics
* flow table events
* PFC watchdog
* ECN mark counters

Parte inferior do formulário

Question 20

What is the primary impact of poor load balancing and packet drops on AI/ML clusters?

Parte superior do formulário

* increased job completion time (JCT)
* reduced data transmission rate
* increased packet marking with ECN bits
* reduced need for PFC

Parte inferior do formulário

Question 21

What is the primary purpose of data preparation in AI?

Parte superior do formulário

* to collect as much data as possible
* to eliminate the need for data labeling
* to reduce the size of the dataset
* to transform raw data into a structured format

Question 22

Which of the following is a key step in the data preparation workflow?

Parte superior do formulário

* data labeling
* hyperparameter tuning
* model deployment
* model evaluation

Parte inferior do formulário

Question 23

What is the purpose of data lineage in the data preparation process?

Parte superior do formulário

* to enhance data visualization
* to track the source and transformation of data samples
* to improve data storage efficiency
* to automate data labeling

Parte inferior do formulário

Question 24

Which of the following is a common data quality issue addressed during preprocessing?

Parte superior do formulário

* data scaling
* feature selection
* missing values
* model overfitting

Question 25

Which technique is used to handle missing data during preprocessing?

Parte superior do formulário

* data augmentation
* data discretization
* data interpolation
* data scaling
* Question 26
* Which action is recommended if Cisco Nexus Dashboard Insights (NDI) reports a "Critical" congestion score?
* Parte superior do formulário
* Immediately increase the bandwidth of all network interfaces.
* Reboot the network devices to clear the congestion.
* Adjust the priority flow control (PFC) and ECN settings.
* Disconnect some servers to reduce traffic.
* Parte inferior do formulário

Parte inferior do formulário

Parte inferior do formulário

Question 27

Which two features are utilized in Cisco Nexus Dashboard Insights (NDI) to manage network congestion in AI/ML workloads? (Choose two.)

Parte superior do formulário

* Network Address Translation (NAT)
* explicit congestion notification (ECN)
* Spanning Tree Protocol (STP)
* virtual local area network (VLAN) segmentation
* Simple Network Management Protocol (SNMP)
* priority flow control (PFC)

Question 28

Which of the following describes a benefit of using a spine-leaf topology?

Parte superior do formulário

* It limits the number of devices that can be added to the network.
* It reduces the need for network security protocols.
* It simplifies the physical layout of server hardware.
* It provides a non-blocking architecture ideal for data-intensive applications.

Question 29

How does explicit congestion notification (ECN) help in managing network traffic?

Parte superior do formulário

* by increasing network bandwidth
* by alerting devices of congestion without dropping packets
* by automatically upgrading network hardware
* by reducing the number of active connections

Question 30

Which feature of Cisco Nexus Dashboard Insights (NDI) provides detailed metrics related to network congestion?

Parte superior do formulário

* traffic analytics
* interface configuration
* anomaly detection
* resource allocation

Parte inferior do formulário

Parte inferior do formulário

Parte inferior do formulário