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Cisco Implementing Cisco Data Center AI Infrastructure Sample Questions (Q24-Q29):

NEW QUESTION # 24

Which type of Cisco Intersight profile, when deployed to fabric interconnects, includes the configuration settings for ports, VLANs, and VSANs?

- A. Unified Edge profiles
- B. UCS Chassis profiles
- C. UCS Server profiles
- D. UCS Domain profiles

Answer: D

Explanation:

A UCS Domain profile is deployed to fabric interconnects in Cisco Intersight Managed Mode and contains the domain-level configuration, including port policies, VLANs, VSANs, network connectivity, and other fabric interconnect settings.

NEW QUESTION # 25

Server administrators receive reports of power utilization being near capacity across multiple UCS X-Series servers in the data center after a hardware upgrade. The chassis operates with six power supply units in redundant power mode. How can the administrator use additional power without impacting redundancy?

- **A. Enable extended power capacity.**
- B. Disable extended power capacity.
- C. Add more power supplies.
- D. Implement a power capping policy.

Answer: A

Explanation:

Extended power capacity allows a UCS X-Series chassis with six power supplies in redundant mode to make additional power available while still preserving redundancy. This is used when power demand increases after hardware upgrades and the administrator needs more usable power without changing the redundant power configuration.

NEW QUESTION # 26

A bank is planning to deploy an AI inference solution at its branch locations. The solution must support workloads that require a balance of compute, memory, and potential GPU acceleration, and it must be suitable for installation by nontechnical onsite resources. The requirements are:

- high availability of the chassis management plane.
- support for up to 768 GB of memory for in-memory model storage and processing
- remote server launch requiring no on-site IT staff
- use of Cisco Intersight for SaaS-based infrastructure lifecycle management

Which solution meets the requirements?

- **A. Cisco Unified Edge**
- B. Cisco UCS C845A M8 Server
- C. Cisco UCS X-Series Direct
- D. Cisco UCS C240 Servers

Answer: A

Explanation:

Cisco Unified Edge is designed for distributed branch and edge AI deployments that need simplified remote operations through Cisco Intersight. It supports branch-friendly installation, SaaS-based lifecycle management, high-availability chassis management, up to 768 GB of memory, and balanced compute resources for inference workloads that may require GPU acceleration.

NEW QUESTION # 27

Which IP-based storage transport supports flow control between directly connected devices?

- **A. NVMe/RoCE**
- B. Fibre Channel
- C. iSCSI
- D. NVMe/TCP

Answer: A

Explanation:

NVMe/RoCE uses RDMA over Converged Ethernet and relies on lossless Ethernet behavior, including priority-based flow control between directly connected devices. This makes it suitable for high-performance AI storage traffic that needs low latency and minimal packet loss.

NEW QUESTION # 28

During validation testing, an engineer observes microbursts causing packet drops on GPU uplinks. Which monitoring capability best detects short-duration congestion events?

- A. Manual CLI inspection once per week
- B. NetFlow with hourly exports
- **C. Streaming telemetry with high-frequency sampling**
- D. Daily syslog review

Answer: C

Explanation:

Microbursts occur within milliseconds and are often missed by traditional monitoring methods.

High-frequency streaming telemetry provides granular visibility into queue depth, drops, and latency conditions in real time. Hourly exports and infrequent manual inspection cannot reliably detect transient AI fabric congestion events.

NEW QUESTION # 29

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