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AI CERTs AI+ NetworkExamination Sample Questions (Q13-Q18):

NEW QUESTION # 13
(In Cisco Packet Tracer, after connecting two networks with static routes, which command verifies that PCs on different networks can communicate?)

- A. show ip protocols.
- B. show running-config.
- C. ip route.
- D. ping [Destination IP Address].

Answer: D

Explanation:
The ping [Destination IP Address] command is the correct and most reliable method to verify communication between PCs on different networks in Cisco Packet Tracer. AI+ Network lab documentation highlights ping as aLayer 3 connectivity testthat confirms end-to-end reachability across routed networks.
When static routes are configured, routing tables may appear correct, but actual packet delivery must still be validated. The ping command sends ICMP Echo Request packets from the source device to the destination IP address and expects Echo Replies in return. A successful response confirms that routing, addressing, interface configuration, and Layer 2/Layer 3 operations are functioning correctly across the network path.
Other options only provide indirect information. show running-config displays configuration settings but does not validate traffic flow. ip route shows routing table entries, confirming that routes exist, but not that hosts can communicate. show ip protocols only lists

routing protocol information and is not relevant for testing static route connectivity.
AI+ Network practical labs consistently emphasize ping as the primary verification tool after routing changes, making option D the correct answer.

NEW QUESTION # 14

(A user is unable to access a web application. If you suspect the issue is with routing, which OSI layer will you investigate?)

- A. Application Layer
- B. Network Layer
- C. Data Link Layer
- D. Transport Layer

Answer: B

Explanation:
Routing issues are investigated at the Network Layer (Layer 3) of the OSI model. AI+ Network foundational documentation explains that the Network Layer is responsible for logical addressing and packet routing between networks using IP addresses.
If a user cannot access a web application due to routing problems, issues may include missing routes, incorrect gateway configuration, routing loops, or unreachable networks. Troubleshooting typically involves examining routing tables, gateway settings, and path selection mechanisms at Layer 3.
The Data Link Layer handles local frame delivery, the Transport Layer manages end-to-end communication using TCP or UDP, and the Application Layer relates to services such as HTTP. AI+ Network materials consistently reinforce that routing failures are diagnosed at the Network Layer.

NEW QUESTION # 15

(Which type of switch is most suitable for powering security cameras in a remote warehouse that require both power and data, without running separate power cables?)

- A. Fiber Switch
- B. Unmanaged Switch
- C. Managed Switch
- D. PoE Switch

Answer: D

Explanation:
A Power over Ethernet (PoE) switch is the most suitable choice for powering security cameras that require both data connectivity and electrical power over a single cable. AI+ Network foundational documentation explains that PoE technology allows Ethernet cables to carry both power and data, eliminating the need for separate electrical wiring.
This is especially beneficial in remote or hard-to-access locations such as warehouses, where installing additional power outlets can be costly and impractical. PoE switches simplify deployment, reduce infrastructure costs, and improve flexibility when placing devices like IP cameras, VoIP phones, and wireless access points.
Managed and unmanaged switches do not inherently provide power delivery unless they specifically support PoE. Fiber switches transmit data over optical fiber but cannot supply electrical power. AI+ Network materials consistently highlight PoE switches as an efficient and scalable solution for powering network- connected devices.

NEW QUESTION # 16

(Why is GNS3 considered superior for advanced network emulation compared to simpler simulators?)

- A. It supports real operating systems for realistic network behavior.
- B. It requires minimal system resources for complex scenarios.
- C. It focuses on simulating Cisco devices.
- D. It provides a pre-configured environment for basic networking tasks.

Answer: A

Explanation:
GNS3 is considered superior for advanced network emulation because it supports real network operating systems, providing highly

realistic network behavior. According to AI+ Network lab documentation, GNS3 allows engineers to run actual router and switch images, including Cisco IOS, IOS-XE, JunOS, and Linux- based systems, rather than relying on simplified simulations.

This capability enables accurate testing of routing protocols, security features, automation scripts, and failure scenarios exactly as they would behave in production environments. Unlike basic simulators, GNS3 does not abstract protocol behavior, making it ideal for advanced troubleshooting, certification labs, and enterprise network design validation.

While GNS3 can simulate Cisco devices, it is not limited to them. It also requires more system resources, not fewer, due to its realism. Pre-configured environments are typically associated with beginner tools, whereas AI+ Network training emphasizes GNS3 for advanced, real-world emulation and hands-on skill development.

NEW QUESTION # 17

(Scenario: A multinational corporation with offices in multiple countries is experiencing significant delays in data processing due to the centralized routing of all traffic to a single data center. The company wants to minimize latency and improve real-time processing capabilities while ensuring that data remains secure within the local regions.

Question: What strategy should they adopt to address these challenges?)

- A. Use a hybrid cloud setup to distribute traffic across multiple public and private networks.
- B. Implement edge computing to process data closer to its origin and reduce latency.
- C. Deploy a single VNET to handle all global traffic centrally.
- D. Consolidate traffic into fewer subnets using VLANs for simplicity.

Answer: B

Explanation:

Implementing edge computing is the most effective strategy to reduce latency and enhance real-time data processing in geographically distributed environments. AI+ Network documentation highlights edge computing as a modern architectural approach where data is processed closer to its source rather than being sent to a centralized data center. This significantly reduces transmission delays, which is critical for real-time analytics, collaboration tools, and latency-sensitive applications.

For multinational organizations, edge computing enables regional data locality, ensuring that sensitive data remains within local jurisdictions, supporting regulatory compliance and security requirements. By processing data at or near regional offices, the organization reduces reliance on long-haul WAN links, minimizing congestion and improving application responsiveness.

Options such as centralized VNETs or VLAN consolidation do not address latency issues and may worsen bottlenecks. While hybrid cloud improves flexibility, it does not inherently solve real-time processing delays unless paired with edge capabilities. AI+ Network trends clearly identify edge computing as a foundational technology for distributed enterprises seeking performance, resilience, and compliance.

NEW QUESTION # 18

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