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## AI CERTs AI+ Network Examination Sample Questions (Q50-Q55):

### NEW QUESTION # 50

(What is the purpose of IoT sensors in smart cities?)

- A. To prioritize network traffic based on static configuration files.
- B. To encrypt data transmissions between IoT devices and cloud servers.
- C. To monitor and collect real-time data for optimizing city operations.
- D. To replace traditional infrastructure with cloud-based systems.

**Answer: C**

Explanation:

IoT sensors in smart cities are primarily used to monitor and collect real-time data that enables optimized city operations. AI+ Network documentation explains that IoT sensors gather information from traffic systems, environmental monitors, energy grids, public safety devices, and infrastructure assets.

This real-time data allows city systems to make intelligent decisions, such as adjusting traffic signals, detecting environmental hazards, optimizing energy consumption, and improving emergency response times.

When combined with AI analytics, IoT data supports predictive maintenance and proactive urban management.

IoT sensors themselves do not perform encryption or traffic prioritization, nor do they replace physical infrastructure. AI+ Network frameworks emphasize IoT as a data collection layer that feeds intelligent systems responsible for automation and optimization in

smart city environments.

### NEW QUESTION # 51

(Scenario: A video streaming platform experiences congestion during prime-time hours, resulting in buffering issues for users. It requires a solution to distribute server loads efficiently while maintaining a seamless viewing experience for users.

Question: Which solution should the platform implement?)

- A. Increased server count without traffic optimization.
- B. Manual server allocation to manage high-demand streams.
- C. Fixed bandwidth assignment for all user connections.
- D. **AI-based load balancing to reroute traffic dynamically.**

#### Answer: D

Explanation:

AI-based load balancing is the most effective solution for managing congestion and ensuring a seamless video streaming experience. AI+ Network documentation explains that AI-driven load balancers analyze real-time traffic patterns, user demand, server health, and network conditions to dynamically route traffic to optimal resources.

Unlike static or manual allocation methods, AI-based systems adapt instantly to spikes in demand, such as prime-time viewing hours. This ensures that no single server becomes overloaded while others remain underutilized. AI-driven rerouting reduces latency, prevents buffering, and improves overall Quality of Experience (QoE) for users.

Simply increasing server count without intelligent traffic distribution does not guarantee performance improvements and often leads to inefficiencies. Fixed bandwidth assignments fail to accommodate fluctuating demand, and manual intervention is too slow for real-time environments. AI+ Network best practices clearly position AI-based load balancing as a critical technology for scalable, high-performance content delivery platforms.

### NEW QUESTION # 52

(What is the function of the ping command in networking labs?)

- A. **To test connectivity between two devices on a network.**
- B. To view the routing table of a network device.
- C. To capture real-time network traffic for analysis.
- D. To configure IP addresses on router interfaces.

#### Answer: A

Explanation:

The primary function of the ping command in networking labs is to test connectivity between two devices on a network. AI+ Network lab documentation identifies ping as a fundamental diagnostic tool used to verify Layer 3 communication using ICMP (Internet Control Message Protocol).

Ping sends ICMP Echo Request packets to a destination device and waits for Echo Reply messages. A successful response confirms that IP addressing, routing, and basic network connectivity are functioning correctly. This makes ping the first verification step after configuring interfaces, routes, or network links.

Ping does not configure IP addresses, display routing tables, or capture traffic. Those tasks are handled by commands such as ip address, show ip route, or packet analyzers like Wireshark. AI+ Network training consistently emphasizes ping as an essential troubleshooting command in both physical and virtual lab environments.

### NEW QUESTION # 53

(What does a Local Area Network (LAN) typically connect?)

- A. Devices across multiple countries for global access.
- B. Devices within a large city for resource sharing.
- C. **Devices within a limited area such as an office.**
- D. Devices within a short range such as a personal area.

#### Answer: C

Explanation:

A Local Area Network (LAN) typically connects devices within a limited geographic area such as an office, building, or campus. AI+ Network foundational networking materials define a LAN as a high-speed network designed for local communication, enabling users to share resources such as files, printers, applications, and internet access.

LANs operate using technologies like Ethernet and Wi-Fi and are characterized by low latency, high bandwidth, and centralized administration. They differ from Metropolitan Area Networks (MANs), Wide Area Networks (WANs), and Personal Area Networks (PANs), each of which serves a different geographic scope.

LANs form the core of enterprise internal networks and are often integrated with larger networks through routers and firewalls. AI+ Network training consistently highlights LANs as the first layer of organizational network architecture.

#### **NEW QUESTION # 54**

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

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

#### **Answer: A**

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 # 55**

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