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## AI CERTs AI+ NetworkExamination Sample Questions (Q49-Q54):

### NEW QUESTION # 49

(Which scenario best exemplifies SDN's programmability in cloud networks?)

- A. Automating legacy hardware configurations.
- **B. Defining traffic flows using a centralized controller.**
- C. Deploying additional physical servers to improve capacity.
- D. Managing network devices with proprietary APIs.

**Answer: B**

Explanation:

Software-Defined Networking (SDN) programmability is best exemplified by defining traffic flows through a centralized controller. AI+ Network documentation explains that SDN separates the control plane from the data plane, allowing centralized controllers to programmatically define how traffic is handled across the network.

In cloud environments, this programmability enables administrators to dynamically control routing, segmentation, quality of service, and security policies using software rather than manual device-by-device configuration. Centralized controllers provide a global view of the network, allowing consistent and automated policy enforcement.

Adding physical servers addresses capacity but not network programmability. Proprietary APIs reduce interoperability, which contradicts SDN's vendor-agnostic goals. Automating legacy hardware may improve efficiency but does not demonstrate SDN's core principle of centralized, software-driven control. AI+ Network frameworks consistently identify centralized traffic flow definition as the clearest example of SDN programmability.

#### NEW QUESTION # 50

(How does DeepSlice enhance 5G network slicing?)

- A. By using deep learning to optimize load management.
- B. By focusing on static DNS domain classifications.
- C. By preemptively blocking threats to web applications and APIs.
- D. By automating penetration testing for security vulnerabilities.

**Answer: A**

Explanation:

DeepSlice enhances 5G network slicing by applying deep learning techniques to optimize load management across network slices. AI+ Network documentation explains that 5G slicing allows multiple virtual networks to operate on the same physical infrastructure, each tailored to specific service requirements such as latency, bandwidth, or reliability.

DeepSlice continuously analyzes traffic demand, user mobility, and application performance metrics. Using deep learning models, it dynamically adjusts resource allocation to ensure each slice receives the appropriate level of service. This improves efficiency, reduces congestion, and maintains Quality of Service (QoS) for diverse use cases such as autonomous vehicles, IoT, and enhanced mobile broadband.

Other options relate to security or DNS analysis and do not address slice optimization. AI+ Network materials identify DeepSlice as a critical innovation for intelligent, adaptive 5G resource management.

#### NEW QUESTION # 51

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

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

**Answer: B**

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 # 52

(How does machine learning predict network traffic patterns?)

- A. By allocating bandwidth to prioritized applications.
- B. By encrypting traffic flows for secure transmission.
- C. By compressing real-time network traffic logs.
- D. By analyzing historical data and identifying trends.

**Answer: D**

Explanation:

Machine learning predicts network traffic patterns by analyzing historical data and identifying trends over time. AI+ Network documentation explains that ML models are trained on past traffic metrics such as bandwidth usage, latency, packet loss, time-of-day patterns, and application behavior.

By learning from this data, machine learning algorithms can forecast future traffic demands, anticipate congestion, and enable proactive network optimization. This predictive capability allows networks to scale resources in advance, adjust routing paths, and maintain consistent Quality of Service (QoS).

Machine learning does not compress traffic or perform encryption directly. While it can inform bandwidth allocation decisions, prediction itself is achieved through pattern recognition and trend analysis. AI+ Network materials emphasize predictive analytics as a core advantage of AI-driven networking solutions.

### NEW QUESTION # 53

(What is the purpose of VLANs in a network?)

- A. To enhance physical connectivity between devices.
- **B. To logically divide a physical network into isolated segments.**
- C. To provide internet access to all connected devices.
- D. To replace the need for network switches and routers.

**Answer: B**

Explanation:

Virtual Local Area Networks (VLANs) are used to logically divide a single physical network into multiple isolated broadcast domains. According to AI+ Network foundational documentation, VLANs allow network administrators to group devices based on function, department, or security requirements rather than physical location.

By segmenting a network logically, VLANs improve security by limiting broadcast traffic and reducing the scope of potential attacks. Devices in different VLANs cannot communicate directly without routing, which allows administrators to enforce access control policies. VLANs also enhance performance by reducing unnecessary broadcast traffic across the entire network.

VLANs do not enhance physical connectivity, provide internet access by themselves, or replace networking hardware. Instead, they work in conjunction with switches and routers to create scalable, secure, and efficient network architectures. AI+ Network materials consistently identify VLANs as a core technique for network segmentation and traffic management.

### NEW QUESTION # 54

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