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## AT-510 Minimum Pass Score, Valid AT-510 Exam Experience

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### AI CERTs AI+ Network Examination Sample Questions (Q29-Q34):

#### NEW QUESTION # 29

(How do firewalls enhance network security in modern infrastructures?)

- A. By managing traffic and blocking unauthorized access.
- B. By encrypting all incoming and outgoing data packets.
- C. By isolating critical servers from external traffic sources.
- D. By ensuring all devices follow dynamic configuration rules.

**Answer: A**

Explanation:

Firewalls enhance network security by managing traffic and blocking unauthorized access based on predefined security rules. AI+ Network security documentation explains that firewalls operate at various layers of the OSI model to inspect incoming and outgoing traffic and enforce access control policies.

Modern firewalls can filter traffic based on IP addresses, ports, protocols, applications, and user identities.

Advanced next-generation firewalls (NGFWs) also integrate intrusion prevention, deep packet inspection, and AI-driven threat detection. This layered inspection prevents unauthorized access, limits attack surfaces, and protects internal assets.

Firewalls do not encrypt all traffic by default, nor do they enforce configuration rules across devices. While they can isolate servers

logically, their primary role is traffic control and access enforcement. AI+ Network materials consistently identify firewalls as a foundational component of secure, modern network architectures.

### NEW QUESTION # 30

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

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

**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 # 31

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

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

**Answer: D**

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 # 32

(How should organizations evaluate the most suitable type of virtualization for their requirements?)

- A. By reviewing the efficiency of application licenses they hold.
- B. By selecting solutions that minimize physical server redundancy.
- C. By identifying the degree of isolation needed for their resources.
- D. By ensuring their storage arrays support physical deployments.

**Answer: C**

Explanation:

Organizations should evaluate virtualization strategies by identifying the degree of isolation required for their resources. AI+ Network foundational materials explain that different virtualization types—hardware, application, network, and storage—offer varying levels of

isolation, security, and performance.

For example, environments with strict compliance or security requirements benefit from strong isolation through hardware virtualization, while lightweight workloads may only require application-level isolation.

Understanding isolation needs helps align virtualization choices with business goals, risk tolerance, and regulatory obligations.

Other factors such as licensing, hardware reduction, or storage compatibility are secondary considerations.

AI+ Network documentation emphasizes that security and isolation requirements should drive virtualization decisions to ensure long-term scalability and compliance.

### NEW QUESTION # 33

(A large-scale enterprise faces frequent DNS spoofing attacks and requires a system that can classify DNS domains dynamically, detect potential threats, and integrate seamlessly into its network environment without manual intervention.

Which tool is best suited?)

- A. Open-AppSec, which focuses on securing web applications and APIs.
- B. PentesGPT, which identifies vulnerabilities during penetration testing.
- C. DeepSlice, which focuses on load management in 5G networks.
- D. **AIEngine, providing programmable packet inspection and DNS domain classification.**

#### Answer: D

Explanation:

AIEngine is the most suitable tool for defending against DNS spoofing attacks through dynamic DNS domain classification and programmable packet inspection. AI+ Network security documentation explains that AIEngine operates directly within the network fabric, enabling real-time inspection of DNS traffic and automated response to suspicious domains.

By leveraging AI-driven classification, AIEngine can detect malicious or spoofed DNS queries without relying solely on static signatures. Its seamless integration into the network allows automatic mitigation actions such as blocking, rerouting, or alerting, all without manual intervention.

DeepSlice addresses 5G slicing optimization, PentesGPT focuses on vulnerability discovery rather than live defense, and Open-AppSec is limited to application-layer security. AI+ Network frameworks clearly position AIEngine as an adaptive, inline security and traffic management solution.

### NEW QUESTION # 34

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