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## CERTIFICATION EXAM OBJECTIVES COMPTIA NETWORK+ N10-009

1.0 Networking Concepts	23%
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3.0 Network Operations	19%
4.0 Network Security	14%
5.0 Network Troubleshooting	24%

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## CompTIA Network+ Certification Exam Sample Questions (Q347-Q352):

### NEW QUESTION # 347

A small business is deploying new phones, and some of the phones have full HD videoconferencing features. The Chief Information Officer (CIO) is concerned that the network might not be able to handle the traffic if it reaches a certain threshold. Which of the following can the network engineer configure to help ease these concerns?

- A. A VLAN with 100Mbps speed limits
- B. A smaller subnet mask
- **C. Full duplex on all user ports**
- D. An IP helper to direct VoIP traffic

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation:

Full duplex mode allows devices to send and receive data simultaneously, improving network performance and reducing congestion, which is critical for VoIP and video conferencing.

Breakdown of Options:

- \* A. A VLAN with 100Mbps speed limits- VLANs segment traffic but limiting speeds to 100Mbps would worsen video performance.
- \* B. An IP helper to direct VoIP traffic- IP helper is used for DHCP relay, not for VoIP optimization.
- \* C. A smaller subnet mask- A smaller subnet reduces IP address availability but does not improve network performance.
- \* D. Full duplex on all user ports- Correct answer. Full duplex eliminates collisions, allowing better VoIP and video performance.

#### NEW QUESTION # 348

In the context of troubleshooting and change management, which of the following steps outlines the actions, risks, and mitigation strategies for implementing a change?

- A. Test the theory to determine cause
- B. Develop a theory of probable cause
- C. Establish a plan of action
- D. Identify the problem

**Answer: C**

Explanation:

When dealing with troubleshooting and change management, the plan of action outlines the steps, risks, and mitigation strategies. A change advisory board (CAB) uses this documented plan to decide whether to approve the change.

- \* A. Identify the problem is the first step in troubleshooting, not decision-making for CAB.
- \* B. Develop a theory is diagnostic work, not planning.
- \* C. Test the theory confirms causes but doesn't provide actionable planning information.

References (CompTIA Network+ N10-009):

\* Domain: Network Operations - Change management, troubleshooting methodology, CAB processes.

#### NEW QUESTION # 349

A user reports having intermittent connectivity issues to the company network. The network configuration for the user reveals the following:

IP address: 192.168.1.10

Subnet mask: 255.255.255.0

Default gateway: 192.168.1.254

The network switch shows the following ARP table:

MAC address	IP address	Interface	VLAN
0c00.1134.0001	192.168.1.10	eth4	10
0c00.1983.210a	192.168.2.13	eth5	11
0c00.1298.d239	192.168.1.10	eth6	10
0c00.a291.c113	192.168.2.12	eth7	11
0c00.923b.2391	192.168.1.11	eth8	10
feff.2391.1022	192.168.1.254	eth1	10

Which of the following is the most likely cause of the user's connection issues?

- A. A switch with spanning tree conflict
- B. Another PC with manually configured IP
- C. A router with overlapping route tables
- D. A port with incorrect VLAN assigned

**Answer: B**

Explanation:

This scenario describes a duplicate IP address. The ARP table shows two different MAC addresses (0c00.1134.0001 and 0c00.1298.d239) associated with the same IP address (192.168.1.10), which leads to ARP table conflicts and intermittent connectivity.

From Andrew Ramdayal's guide:

"Duplicate IP addresses occur when two devices on the same network are assigned the same IP address, causing network conflicts. Common issues include manual configuration errors or DHCP lease issues.

Resolution includes using IP management tools and avoiding overlaps in DHCP and static IP assignments."

### NEW QUESTION # 350

A network administrator is in the process of installing 35 PoE security cameras. After the administrator installed and tested the new cables, the administrator installed the cameras. However, a small number of the cameras do not work. Which of the following is the most reason?

- A. Signal attenuation
- B. Wrong voltage
- C. Power budget exceeded
- D. Incorrect wiring standard

**Answer: C**

Explanation:

When installing multiple Power over Ethernet (PoE) devices like security cameras, it is crucial to ensure that the total power requirement does not exceed the power budget of the PoE switch. Each PoE switch has a maximum power capacity, and exceeding this capacity can cause some devices to fail to receive power.

PoE Standards: PoE switches conform to standards such as IEEE 802.3af (PoE) and 802.3at (PoE+), each with specific power limits per port and total power capacity.

Power Calculation: Adding up the power requirements of all connected PoE devices can help determine if the total power budget of the switch is exceeded.

Symptoms: When the power budget is exceeded, some devices, typically those farthest from the switch or connected last, may not power up or function correctly.

Network Reference:

CompTIA Network+ N10-007 Official Certification Guide: Covers PoE standards and troubleshooting power issues.

Cisco Networking Academy: Discusses PoE technologies, power budgeting, and managing PoE devices.

Network+ Certification All-in-One Exam Guide: Provides information on PoE setup, including power budget considerations.

### NEW QUESTION # 351

A storage network requires reduced overhead and increased efficiency for the amount of data being sent. Which of the following should an engineer likely configure to meet these requirements?

- A. Jumbo frames
- B. QoS
- C. Link speed
- D. 802.1q tagging

**Answer: A**

Explanation:

Jumbo frames are Ethernet frames with a payload greater than the standard maximum transmission unit (MTU) of 1500 bytes.

Configuring jumbo frames can reduce overhead and increase efficiency in storage networks by allowing more data to be sent in each frame, thus reducing the number of frames needed to transmit the same amount of data.

\* Reduced Overhead: By sending larger frames, the relative overhead for headers and acknowledgments is reduced.

\* Increased Efficiency: Larger frames mean fewer packets to process, leading to better utilization of network bandwidth and improved performance in high-throughput environments like storage networks.

\* Configuration: Requires support from all devices in the network path, including switches and network interface cards (NICs).

Network References:

\* CompTIA Network+ N10-007 Official Certification Guide: Explains jumbo frames and their benefits in reducing network overhead.

\* Cisco Networking Academy: Provides training on network optimization techniques, including the use of jumbo frames.

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