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## 2026 Newest CompTIA N10-009: Latest CompTIA Network+ Certification Exam Exam Questions Vce

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### CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Networking Concepts: For network administrators and IT support professionals, this domain covers</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Cloud concepts and connectivity options, and Common networking ports.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Network Implementation: For network technicians and junior network engineers, this section covers Characteristics of routing technologies, Configuration of switching technologies and features, and</li></ul>
Topic 4	<ul style="list-style-type: none"><li>OSI reference model concepts, Comparison of networking appliances, applications, and functions</li></ul>

Topic 5	<ul style="list-style-type: none"> <li>• <b>Network Security:</b> This section of the exam for cybersecurity specialists and network security administrators covers the importance of basic network security concepts, various types of attacks and their impact on the network, application of network security features, defense techniques, and solutions.</li> <li>• <b>Network Troubleshooting:</b> For help desk technicians and network support specialists, this section covers troubleshooting methodology, troubleshooting common cabling and physical interface issues, troubleshooting common issues with network services, and use of appropriate tools or protocols to solve networking issues.</li> </ul>
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## CompTIA Network+ Certification Exam Sample Questions (Q59-Q64):

### NEW QUESTION # 59

Which of the following Layer 1 devices is responsible for the termination of fiber-optic connections on an SFP-capable switch?

- A. Repeater
- B. Modem
- **C. Transceiver**
- D. Ethernet NIC

**Answer: C**

Explanation:

A transceiver is the correct answer because it is the Layer 1 (Physical Layer) component that physically terminates and converts fiber-optic signals on an SFP-capable switch. In CompTIA Network+ N10-009 objectives, transceivers—such as SFP, SFP+, QSFP, and QSFP+ modules—are explicitly identified as physical interface components that handle signal transmission and reception. These modules convert electrical signals from the switch into optical signals for fiber cabling (and vice versa), enabling communication over different media types and distances.

A modem is also a Layer 1 device, but its purpose is to modulate and demodulate signals for WAN technologies such as DSL or cable—it does not terminate fiber connections on switches. An Ethernet NIC provides network access for end devices like computers and servers and typically terminates copper Ethernet, not modular fiber interfaces on switches. A repeater regenerates and amplifies signals to extend cable distances but does not provide fiber termination or media conversion at a switch port.

According to Network+ standards, SFP transceivers are essential for flexible network design, allowing administrators to select appropriate fiber types (single-mode or multi-mode), wavelengths, and distances while remaining compliant with physical layer requirements.

### NEW QUESTION # 60

Which of the following is the most likely reason an insurance brokerage would enforce VPN usage?

- **A. To encrypt sensitive data in transit**
- B. To maintain contractual agreements
- C. To comply with data retention requirements
- D. To secure the endpoint

**Answer: A**

Explanation:

The most likely reason an insurance brokerage would enforce VPN usage is to encrypt sensitive data in transit. VPNs (Virtual Private Networks) create a secure tunnel between the user's device and the corporate network, ensuring that data is encrypted and protected from interception.

**Encryption:** VPNs encrypt data, preventing unauthorized access and ensuring data privacy during transmission over public or unsecured networks.

**Data Protection:** Essential for industries handling sensitive information, such as insurance brokerages, to protect customer data and comply with regulatory requirements.

**Security:** Enhances overall network security by providing secure remote access for employees.

**Network Reference:**

CompTIA Network+ N10-007 Official Certification Guide: Discusses the role of VPNs in securing data in transit.

Cisco Networking Academy: Provides training on VPN technologies and their importance in data security.

Network+ Certification All-in-One Exam Guide: Explains VPN usage and its benefits in protecting sensitive information.

### NEW QUESTION # 61

A virtual machine has the following configuration:

\*IPv4 address: 169.254.10.10

\*Subnet mask: 255.255.0.0

The virtual machine can reach colocated systems but cannot reach external addresses on the Internet. Which of the following is most likely the root cause?

- A. The DHCP server is offline.
- B. The IP address is an RFC1918 private address.
- C. The subnet mask is incorrect.
- D. The DNS server is unreachable.

**Answer: A**

Explanation:

\* Understanding the 169.254.x.x Address:

\* An IPv4 address in the range of 169.254.x.x is an Automatic Private IP Addressing (APIPA) address, assigned when a DHCP server is unavailable.

\* DHCP Server Offline:

\* APIPA Assignment: When a device cannot obtain an IP address from a DHCP server, it assigns itself an APIPA address to enable local network communication. This allows communication with other devices on the same local subnet but not with external networks.

\* Resolution: Ensure the DHCP server is operational. Check for connectivity issues between the virtual machine and the DHCP server, and verify the DHCP server settings.

\* Comparison with Other Options:

\* The subnet mask is incorrect: The subnet mask 255.255.0.0 is appropriate for the 169.254.x.x range and does not prevent external access by itself.

\* The IP address is an RFC1918 private address: RFC1918 addresses are private IP ranges (10.x.x.x, 172.16.x.x-172.31.x.x, 192.168.x.x) but 169.254.x.x is not one of them.

\* The DNS server is unreachable: While this could affect name resolution, it would not prevent the assignment of a non-APIPA address or local network communication.

\* Troubleshooting Steps:

\* Verify the DHCP server's status and connectivity.

\* Restart the DHCP service if necessary.

\* Renew the IP lease on the virtual machine using commands such as `ipconfig /renew` (Windows) or `dhclient` (Linux).

References:

\* CompTIA Network+ study materials on IP addressing and DHCP troubleshooting.

### NEW QUESTION # 62

Which of the following network cables involves bounding light off of protective cladding?

- A. Multimode
- B. Coaxial
- C. Twinaxial
- D. Single-mode

**Answer: A**

Explanation:

Multimode fiber optic cables involve the transmission of light signals that bounce off the core's cladding as they travel down the fiber. This characteristic differentiates it from single-mode fiber, where the light travels directly down the fiber without reflecting off the cladding.

Here are some detailed points about multimode fiber cables:

\* Construction: Multimode fibers have a larger core diameter, typically 50 or 62.5 microns, compared to single-mode fibers, which have a core diameter of about 9 microns.

\* Light Propagation: The larger core of multimode fiber allows multiple light modes to propagate. These modes travel at different angles, leading to reflections off the core-cladding boundary.

\* Distance and Bandwidth: Due to modal dispersion, where different light modes arrive at the receiver at different times, multimode fibers are suited for shorter distance applications compared to single-mode fibers. Typical distances are up to 550 meters for 10

Gbps Ethernet using OM4 multimode fiber.

\* Applications: Multimode fibers are commonly used in LANs (Local Area Networks), data centers, and for shorter distance data transmission due to their cost-effectiveness and ease of installation.

Network References:

\* CompTIA Network+ N10-007 Official Certification Guide, which covers fiber optic technologies, including the differences between multimode and single-mode fibers.

\* Cisco Networking Academy: Provides training materials and reference guides on the properties of different fiber optic cables.

\* Fiber Optic Association (FOA): A professional society dedicated to fiber optics, offering extensive information and certification on fiber optic technologies.

Multimode fibers are specifically designed for short-range communication with higher data rates and are typically used in environments like data centers, where high bandwidth over shorter distances is crucial. The reflections off the cladding, inherent to multimode fiber, facilitate this high-capacity communication.

### NEW QUESTION # 63

During a recent security assessment, an assessor attempts to obtain user credentials by pretending to be from the organization's help desk. Which of the following attacks is the assessor using?

- A. Evil twin
- B. Shoulder surfing
- C. Tailgating
- D. Smishing
- E. Social engineering

**Answer: E**

Explanation:

This is a classic example of social engineering, where an attacker manipulates individuals into giving up confidential information, such as credentials, by pretending to be someone trustworthy (like help desk staff).

\* B. Tailgating involves physical access without authentication.

\* C. Shoulder surfing is spying over someone's shoulder to steal info.

\* D. Smishing is phishing via SMS.

\* E. Evil twin involves a rogue Wi-Fi access point impersonating a legitimate one.

#Reference:

CompTIA Network+ N10-009 Official Objectives: 4.2 - Identify common security threats and vulnerabilities.

### NEW QUESTION # 64

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