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# N10-009<sup>Q&As</sup>

CompTIA Network+ Exam

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**QUESTION 1**

A network technician needs to install patch cords from the UTP patch panel to the access switch for a newly occupied set of offices. The patch panel is not labeled for easy jack identification. Which of the following tools provides the easiest way to identify the appropriate patch panel port?

A. Toner

B. Laptop

C. Cable tester

D. Visual fault locator

Correct Answer: A

A toner probe, often referred to as a toner and probe kit, is the easiest and most effective tool for identifying individual cables in a bundle, especially in situations where the patch panel is not labeled. The toner sends an audible tone through

the cable, and the probe detects the tone at the other end, allowing the technician to quickly identify the correct cable.

Functionality: The toner generates a tone that travels along the cable. When the probe is placed near the correct cable, it detects the tone and emits a sound. Ease of Use: Toner probes are straightforward to use, even in environments with

many cables, making them ideal for identifying cables in unlabeled patch panels. Efficiency: This method is much faster and more reliable than manual tracing, especially in complex setups.

Network References:

CompTIA Network+ N10-007 Official Certification Guide: Details tools used for cable identification and troubleshooting.

Cisco Networking Academy: Provides training on using toner probes and other cable testing tools.

Network+ Certification All-in-One uide: Explains the use of different tools for network cable identification and management.

**QUESTION 2**

A network administrator wants users to be able to authenticate to the corporate network using a port-based authentication framework when accessing both wired and wireless devices. Which of the following is the best security feature to accomplish this task?

A. 802.1X

B. Access control list

C. Port security

D. MAC filtering

Correct Answer: A

802.1X is a port-based network access control (PNAC) protocol that provides an authentication mechanism to devices wishing to connect to a LAN or WLAN. It is widely used for secure network access, ensuring that only authenticated devices can access the network, whether they are connecting via wired or wireless means. 802.1X works in conjunction with an authentication server, such as RADIUS, to validate the credentials of devices trying to connect.References: CompTIA Network+ study materials.

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**QUESTION 3**

A customer recently moved into a new office and notices that some wall plates are not working and are not properly labeled

Which of the following tools would be best to identify the proper wiring in the IDF?

A. Toner and probe

B. Cable tester

C. Visual fault locator

D. Network tap

Correct Answer: A

A toner and probe tool, also known as a tone generator and probe, is used to trace and identify individual cables within a bundle or to locate the termination points of cables in wiring closets and patch panels. It generates a tone that can be picked up by the probe, helping technicians quickly and accurately identify and label wall plates and wiring. This is the best tool for identifying proper wiring in the Intermediate Distribution Frame (IDF). References: CompTIA Network+ Exam Objectives and official study guides.

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**QUESTION 4**

Which of the following is most closely associated with attempting to actively prevent network intrusion?

A. IDS

B. Firewall

C. IPS

D. VPN

Correct Answer: C

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**QUESTION 5**

Which of the following, in addition to a password, can be asked of a user for MFA?

A. PIN

B. Favorite color

C. Hard token

D. Mother\\'s maiden name

Correct Answer: A

MFA stands for Multi-Factor Authentication, which is a method of verifying the identity of a user by requiring two or more pieces of evidence that belong to different categories:

something the user knows, something the user has, or something the user is. A password is something the user knows, and it is usually combined with another factor such as a PIN (Personal Identification Number) or a hard token (a physical

device that generates a one- time code) that the user has. A favorite color or a mother\\'s maiden name are not suitable for MFA, as they are also something the user knows and can be easily guessed or compromised.

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