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QUESTION 1

A user connects to a corporate VPN via a web browser and is able to use TLS to access the internal financial system to input a time card.

Which of the following best describes how the VPN is being used?

- A. Clientless
- B. Client-to-site
- C. Full tunnel
- D. Site-to-site

Correct Answer: A

Reference: CompTIA Network+ Certification Exam Objectives - Remote Access Methods section.

QUESTION 2

A customer needs six usable IP addresses. Which of the following best meets this requirement?

- A. 255.255.255.128
- B. 255.255.255.192
- C. 255.255.255.224
- D. 255.255.255.240

Correct Answer: D

Reference: CompTIA Network+ Certification Exam Objectives - IP Addressing section.

QUESTION 3

A network deployment engineer is deploying a new single-channel 10G optical connection. Which of the following optics should the engineer MOST likely use to satisfy this requirement?

- A. QSFP
- B. QSFP+
- C. SFP
- D. SFP+

Correct Answer: D

SFP+ is a type of optical transceiver that supports 10G single-channel transmission over fiber optic cables. SFP+ stands

for small form-factor pluggable plus, and it is compatible with SFP slots on switches and routers.

QUESTION 4

Which of the following OSI model layers will ensure messages are transmitted to their destinations and no data is duplicated?

- A. Session
- B. Data link
- C. Network
- D. Transport

Correct Answer: D

The transport layer is the fourth layer of the OSI model, and it is responsible for end-to-end delivery of data over a network. It uses standard protocols such as TCP, UDP, and DCCP to enhance its functionalities. One of the main functions of the transport layer is to ensure that messages are transmitted to their destinations reliably and in the correct order. It also prevents data duplication by using sequence numbers, acknowledgments, and retransmission mechanisms

QUESTION 5

A support agent receives a report that a remote user's wired devices are constantly disconnecting and have slow speeds. Upon inspection, the support agent sees that the user's coaxial modem has a signal power of -97dB.

- A. Removing any splitters connect to the line
- B. Switching the devices to wireless
- C. Moving the devices closer to the modem
- D. Lowering the network speed

Correct Answer: A

A signal power of -97dB indicates a very weak signal, which can cause connectivity issues and slow speeds. Splitters on a coaxial line can degrade the signal quality further, so removing them can help improve the signal strength and overall

connection quality.

Signal Quality: Splitters can reduce the signal strength by dividing the signal among multiple lines, which can be detrimental when the signal is already weak. **Direct Connection:** Ensuring a direct connection from the modem to the incoming

line can maximize signal quality and reduce potential points of failure.

Network References:

CompTIA Network+ N10-007 Official Certification Guide: Discusses troubleshooting connectivity issues and the impact

of signal strength on network performance.

Cisco Networking Academy: Provides insights on maintaining optimal signal quality in network setups.

Network+ Certification All-in-One guide: Covers common network issues, including those related to signal degradation and ways to mitigate them.

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