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QUESTION 1

Which of the following OSI model layers contains IP headers?

A. Presentation

B. Application

C. Data link

D. Network

E. Transport

Correct Answer: D

The OSI model is a conceptual framework that helps to understand how different protocols and technologies work together to enable communication between devices. In this model, the Network layer is responsible for routing and addressing, which includes the use of IP (Internet Protocol) headers. IP headers contain information about the source and destination of a packet, as well as other parameters used for routing and fragmentation.

QUESTION 2

Which of the following IP transmission types encrypts all of the transmitted data?

A. ESP

B. AH

C. GRE

D. UDP

E. TCP

Correct Answer: A

Encapsulating Security Payload (ESP) is a part of the IPsec suite that provides confidentiality, integrity, and authenticity to the data packets it transmits. ESP encrypts the payload of the IP packet to ensure that the transmitted data is confidential and protected from unauthorized access, making it the correct choice for encrypting all of the transmitted data.

QUESTION 3

A company is opening a new building on the other side of its campus. The distance from the closest building to the new building is 1,804ft (550m). The company needs to connect the networking equipment in the new building to the other buildings on the campus without using a repeater. Which of the following transceivers should the company use?

A. 10GBASE-SW

B. 10GBASE-LR

C. 10GBASE-LX4 over multimode fiber

D. 10GBASE-SR

Correct Answer: B

10GBASE-SW (MMF 984ft)

10GBASE-LR (SMF 6 Miles)

10GBASE-LX4 over multimode fiber (MMF 984ft)

10GBASE-SR (MMF 1000 ft)

QUESTION 4

Logs show an unauthorized IP address entering a secure part of the network every night at 8:00 pm. The network administrator is concerned that this IP address will cause an issue to a critical server and would like to deny the IP address at the edge of the network. Which of the following solutions would address these concerns?

A. Changing the VLAN of the web server

B. Changing the server\\'s IP address

C. Implementing an ACL

D. Instating a rule on the firewall connected to the web server

Correct Answer: C

QUESTION 5

A technician is troubleshooting a user\\'s connectivity issues and finds that the computer\\'s IP address was changed to 169.254.0.1.

Which of the following is the most likely reason?

A. Two or more computers have the same IP address in the ARP table.

B. The computer automatically set this address because the DHCP was not available.

C. The computer was set up to perform as an NTP server.

D. The computer is on a VPN and is the first to obtain a different IP address in that network.

Correct Answer: B

IP addresses beginning with 169.254. are called link-local addresses or APIPA (Automatic Private IP Addressing)1. They are assigned by the computer itself when it cannot reach a DHCP server to obtain a valid IP address from the network2. This can happen for several reasons, such as a faulty router, a misconfigured network, or a disconnected cable3. To troubleshoot this issue, the technician should check the network settings, the router configuration, and the physical connection of the computer. The technician should also try to renew the IP address by using the command ipconfig /renew in Windows or dhclient in Linux. If the problem persists, the technician may need to contact the network

administrator or the ISP for further assistance.