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QUESTION 1

At which of the following OSI model layers does routing occur?

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

Correct Answer: D

The Network layer is responsible for logical addressing, routing, and path determination of data between source and destination hosts on different networks. The layer uses logical addresses (e.g., IP addresses) to route packets to their destination.

QUESTION 2

A company wants to implement a large number of WAPs throughout its building and allow users to be able to move around the building without dropping their connections.

Which of the following pieces of equipment would be able to handle this requirement?

- A. A VPN concentrator
- B. A load balancer
- C. A wireless controller
- D. A RADIUS server

Correct Answer: C

A wireless controller would be able to handle the requirement of implementing a large number of WAPs throughout the building and allowing users to move around without dropping their connections. A wireless controller is a device that centrally manages and configures multiple wireless access points (WAPs) on a network. It can provide features such as load balancing, roaming, security, QoS, and monitoring for the wireless network. A wireless controller can also support wireless mesh networks, where some WAPs act as relays for other WAPs to extend the wireless coverage.

References: <https://www.cisco.com/c/en/us/products/wireless/wireless-lan-controller/index.html>

QUESTION 3

Which of the following layers of the OSI model receives data from the application layer and converts it into syntax that is readable by other devices on the network?

- A. Layer 1
- B. Layer 3



C. Layer 6

D. Layer 7

Correct Answer: C

"Presentation Layer is the 6th layer in the Open System Interconnection (OSI) model. This layer is also known as Translation layer, as this layer serves as a data translator for the network. The data which this layer receives from the Application Layer is extracted and manipulated here as per the required format to transmit over the network. The main responsibility of this layer is to provide or define the data format and encryption. The presentation layer is also called as Syntax layer since it is responsible for maintaining the proper syntax of the data which it either receives or transmits to other layer(s)."

QUESTION 4

A network administrator has discovered a low-end managed switch connected to the company's LAN. While reading about the device's specifications on the manufacturer's website, the administrator discovers the switch does not support a command-line interface for administration. Which of the following remote access methods should the administrator use to log in to the switch?

A. Install a VNC plugin on the web browser.

B. Connect to the HTTPS management interface.

C. Replace the managed switch with an unmanaged switch.

D. Establish an SSH session.

Correct Answer: B

QUESTION 5

A junior technician deployed new computers in a company, and users are reporting issues with file transfers to network shares being slower than with the previous computers. The network administrator verifies the switch's gigabit ports are set to autonegotiate. Which of the following should the administrator perform NEXT to determine the issue?

A. Change the default gateway on the new computers.

B. Update the drivers for the NIC cards.

C. Move the computers to a different VLAN.

D. Determine if the NIC speed on the computers is configured correctly.

Correct Answer: D

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