

# CompTIA Network Plus Study Guide

## Lesson 1: Comparing OSI Model Network Functions

- 1. A networking engineer is troubleshooting issues with a router. At which layer of the OSI model is the engineer troubleshooting?**
  - a. Layer 3, Network; The main appliance working at layer 3 is the router; The network layer is responsible for moving data around a system of networks, known as internetwork or the Internet.
- 2. A systems admin wants to ensure that port numbers are being appropriately assigned for each type of network application. What layer of the OSI model should the admin be reviewing to ensure these actions are taken?**
  - a. Layer 4, Transport; At the transport layer on the sending host, the system packages data from the upper layers as a series of layer 4 protocol data units (PDUs). It is critical at this layer that all types of network applications be assigned the correct port number.
- 3. A communications engineer notices that every time it rains the signal becomes very degraded. Which layer of the OSI model is the engineer most likely troubleshooting?**
  - a. Layer 1, Physical; The physical layer of the OSI model is responsible for the transmission and receipt of the signals that represent bits of data from one node to another node; Wireless is considered a layer one medium.
- 4. A network admin configures a SOHO router for a small business. Which zone and IP address information is configured on the router for proper functionality for users to access all internal resources and the Internet?**
  - a. Zone: private, Internal IP range 192.168.5.1/24, Zone: public, External IP 209.0.113.1; For the SOHO router to function properly for both internal network communications and access to the Internet, a private zone would use a private IP address range (192.168.0.0 to 192.168.255.255) while a public zone would use a public IP (198.20.0.0; 223.255.255.255).
- 5. An application developer is attempting to troubleshoot issues with ASCII conversion for their application. At which layer of the OSI model are they troubleshooting?**
  - a. Layer 6, Presentation; The presentation layer of the OSI model transforms data between the format required for the network and the format required for the application.
- 6. A security engineer implements port security on a hardware firewall. Which OSI model layer identifies the application ports to configure?**
  - a. Layer 4, Transport; The transport layer manages end-to-end communications. At layer 4, a port number identifies each application, such as 80 for HTTP web traffic.
- 7. A network engineer is analyzing a specific network protocol. What are the principal functions of a network protocol?**
  - a. Addressing and Encapsulation; Addressing describes where data messages should go. At each layer, there are different mechanisms for identifying nodes and rules on how they can send and receive messages. Encapsulation describes how the system should package data messages for transmission. Encapsulation is like an envelope for a letter, with the distinction that each layer requires its own envelope.

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