

1. Which of the following best reduces the ability of one device to capture the packets that are meant for another device
  - A. Hubs
  - B. Switches
  - C. Routers
  - D. Firewalls
  
2. When reviewing the configuration of network devices, an IS auditor should first identify:
  - A. the good practices for the types of network devices deployed.
  - B. whether components of the network are missing.
  - C. the importance of the network devices in the topology.
  - D. whether subcomponents of the network are being used appropriately.
  
3. Which of the following network components is primarily set up to serve as a security measure by preventing unauthorized traffic between different segments of the network?
  - A. Firewalls
  - B. Routers
  - C. Layer 2 switches
  - D. Virtual local area networks (VLANs)
  
4. During a review of intrusion detection logs, an IS auditor notices traffic coming from the Internet, which appears to originate from the internal IP address of the company payroll server. Which of the following malicious activities would most likely cause this type of result?
  - A. A denial-of-service (DoS) attack
  - B. Spoofing
  - C. Port scanning
  - D. A man-in-the middle attack
  
5. Which of the following shows the layer sequence as layers 2, 5, 7, 4, and 3
  - A. Data link, session, application, transport, and network
  - B. Data link, transport, application, session, and network
  - C. Network, session, application, network, and transport
  - D. Network, transport, application, session, and presentation
  
6. Systems that are built on the OSI framework are considered open systems. What does this mean?
  - A. They do not have authentication mechanisms configured by default.
  - B. They have interoperability issues.
  - C. They are built with internationally accepted protocols and standards so they can easily communicate with other systems.
  - D. They are built with international protocols and standards so they can choose what types of systems they will communicate with.

7. Which OSI layer handles encryption?
  - a. Session
  - b. Application
  - c. Presentation
  - d. Network
  
8. \_\_\_\_\_ is the process in which each layer of the OSI model accepts a message from a layer (or protocol) above it, places its own header, and communicates it to a lower level.
  - a. Translation
  - b. Encapsulation
  - c. Enumeration
  - d. Processing
  
9. Frank is a security administrator for a web server. His server received an unusual high volume of traffic that it could not handle and was forced to reject requests. Frank traced the source of the traffic back to a botnet. What type of attack took place?
  - e. Denial of service
  - f. Reconnaissance
  - g. Compromise
  - h. Malicious insider