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**QUESTION 1**

Sandy, the network administrator, has funding to do a major upgrade of the company's LAN. This upgrade is currently in the planning stage, and Sandy still needs to determine the network requirements, bottlenecks, and any future upgrades in mind. Which of the following is the FIRST step in the planning process?

- A. Conduct a vulnerability scan
- B. Establish a network baseline
- C. Conduct traffic analysis
- D. Conduct a risk assessment

**Correct Answer: B**

**QUESTION 2**

Sandy, a network administrator, wants to be able to block all already known malicious activity. Which of the following would allow her to perform this activity?

- A. Behavioral Based IDS
- B. Signature Based IDS
- C. Behavioral Based IPS
- D. Signature Based IPS

**Correct Answer: D**

**QUESTION 3**

Which of the following should Joe, a technician, do FIRST when setting up a SOHO network?

- A. Set up an account with an Internet service provider.
- B. Create a list of requirements and constraints.
- C. Arrange a domain name with a suitable registrar.
- D. Choose the correct operating system version.

**Correct Answer: B**

**QUESTION 4**

Which of the following is an example of two-factor authentication?

- A. A username and PIN
- B. A username and password
- C. A username, password, finger print scan, and smart card
- D. A username, password, and key fob number

**Correct Answer: D**

**QUESTION 5**

Which of the following connector types would Sandy, a network technician, use to connect a serial cable?

- A. RJ-11
- B. BNC
- C. LC
- D. DB-9

**Correct Answer: D**

**QUESTION 6**

Which of the following would Joe, a technician, configure to modify the time a device will hold an IP address provided through DHCP?

- A. DNS suffixes
- B. Leases
- C. Static IP addressing
- D. Reservations

**Correct Answer: B**

**QUESTION 7**

Sandy, a technician, installs a new WAP and users are able to connect; however, users cannot access the Internet. Which of the following is the MOST likely cause of the problem?

- A. The signal strength has been degraded and latency is increasing hop count.
- B. An incorrect subnet mask has been entered in the WAP configuration.
- C. The signal strength has been degraded and packets are being lost.
- D. Users have specified the wrong encryption type and routes are being rejected.

**Correct Answer: B**

**QUESTION 8**

Sandy, a technician, wants to limit access to a wireless network to company owned laptops, but does not want to use an encryption method. Which of the following methods would be BEST to accomplish this?

- A. MAC filtering
- B. SSL VPN
- C. PPPoE
- D. WPA Enterprise

**Correct Answer: A**

**QUESTION 9**

Which of the following network topologies, when a single machine's cable breaks, would only affect one network device and not the rest of the network?

- A. Bus
- B. Peer-to-peer
- C. Ring
- D. Star

**Correct Answer: D**

**QUESTION 10**

Joe, a network technician, is tasked with installing a router and firewall to get an office working with Internet access. Which of the following features **MUST** be configured to allow sharing of a single public IP address?

- A. QoS
- B. POP3
- C. PAT
- D. SMTP

**Correct Answer: C**

**QUESTION 11**

Which of the following is a form of encrypting packets for safe, secure data transmission within a network?

- A. RAS
- B. PPTP
- C. IPSec
- D. ICA

**Correct Answer: C**

**QUESTION 12**

A company has only three laptops that connect to their wireless network. The company is currently using WEP encryption on their wireless network. They have noticed unauthorized connections on their WAP and want to secure their wireless connection to prevent this. Which of the following security measures would BEST secure their wireless network? (Select TWO).

- A. Change the encryption method to WPA
- B. Limit the DHCP scope to only have three addresses total
- C. Enable the SSID broadcast
- D. Enable and configure MAC filtering
- E. Change the broadcast channel to a less commonly used channel

**Correct Answer: AD**

**QUESTION 13**

Two duplicate pieces of equipment can be used in conjunction for which of the following purposes? (Select TWO)

- A. High availability
- B. Fault tolerance
- C. Reduce latency
- D. Wi-MAX
- E. CARP

**Correct Answer: AB**

**QUESTION 14**

The location that the local network connection ends and the ISP responsibility begins is known as the:

- A. Access point.
- B. Default gateway.
- C. IDF connection.
- D. Demarcation point.

**Correct Answer: D**

**QUESTION 15**

Joe, a user, is unable to reach websites, but is able to ping several Internet IPv4 addresses. Which of the following is the MOST likely problem?

- A. Incorrect subnet mask
- B. Incorrect DNS
- C. Missing default gateway
- D. Incorrect IPv6 address

**Correct Answer: B**

**QUESTION 16**

Which of the following sizes is the fixed cell length in ATM?

- A. 8 bytes
- B. 53 bytes
- C. 64 kilobytes
- D. 128 kilobytes

**Correct Answer: B**

**QUESTION 17**

Which of the following network scanners detects and sends out alerts for malicious network activity?

- A. Packet sniffers
- B. IDS
- C. Port scanners
- D. IPS

**Correct Answer: B**

**QUESTION 18**

Joe, a technician, is configuring ports on a switch. He turns off auto-negotiation and sets the port speed to 1000 Mbps. A user's PC is no longer able to access the network. Which of the following is MOST likely the problem?

- A. The user's NIC does not support 1Gbps
- B. The switch is not compatible with 1000Mbps.
- C. The user's NIC does not support 100Mbps.
- D. Joe needs to restart the DNS server.

**Correct Answer: A**

**QUESTION 19**

Which of the following TCP/IP and OSI model layers retransmits a TCP packet if it is not received successfully at its destination?

- A. The transport OSI model layer and the transport TCP/IP model layer
- B. The transport OSI model layer and the Internet TCP/IP model layer
- C. The network OSI model layer and the transport TCP/IP model layer
- D. The network OSI model layer and the Internet TCP/IP model layer

**Correct Answer: A**

**QUESTION 20**

Which of the following network appliances would facilitate an even amount of traffic hitting each web server?

- A. Load balancer
- B. VPN concentrator
- C. Proxy server
- D. Content filter

**Correct Answer: A**

**QUESTION 21**

For which of the following reasons could a single server's NIC transmit packets from multiple MAC address sources?

- A. The server contains several virtual machines and the MAC addresses are from the virtual machines.
- B. The server is hosting a web server and the MAC addresses are from connected browsers.
- C. The server is hosting a proxy server and the MAC addresses are from the connected clients.
- D. The server NIC is starting to fail and should be replaced.

**Correct Answer: A**

**QUESTION 22**

Which of the following cable types would have the LEAST amount of EMI?

- A. CAT3
- B. CAT5
- C. STPCAT6
- D. Plenum CAT6

**Correct Answer: C**

**QUESTION 23**

Which of the following wireless standards operates on the same frequency as 802.11a?

- A. Compatible with 802.11b wireless networks
- B. Compatible with 802.11g wireless networks
- C. Compatible with 802.11i wireless networks
- D. Compatible with 802.11n wireless networks

**Correct Answer: D**

**QUESTION 24**

Which of the following can Joe, a network technician, change to help limit war driving?

- A. Signal strength
- B. SSID
- C. Frequency
- D. Channel

**Correct Answer: A**

**QUESTION 25**

Sandy, a technician, is asked to not allow FTP traffic on a network. Which of the following ports should be blocked on the firewall to achieve this?

- A. 21
- B. 22
- C. 23
- D. 25

**Correct Answer: A**

**QUESTION 26**

Which of the following uses eight groups of characters for addressing?

- A. MAC
- B. IPv4
- C. IPv6
- D. DHCP

**Correct Answer: C**

**QUESTION 27**

A packet sniffer is MOST likely used to do which of the following?

- A. Prevent network based attacks
- B. Capture and analyze network traffic
- C. Route IP packets to remote destinations
- D. Record the switch ARP table

**Correct Answer: B**

**QUESTION 28**

Which of the following could Karen, a network technician, use to find the approximate location of a break in a long network cable?

- A. Protocol analyzer
- B. Time domain reflectometer
- C. Toner probe
- D. Multimeter

**Correct Answer: B**

**QUESTION 29**

Which of the following network access methods is the MOST secure?

- A. PPPoE
- B. SIP
- C. RSH
- D. IPSec

**Correct Answer: D**

**QUESTION 30**

Which of the following ports should be allowed through a firewall to allow DNS resolution to occur to an outside DNS server?

- A. 20
- B. 53
- C. 80

D. 3389

**Correct Answer: B**

**QUESTION 31**

Which of the following ports carries IMAP traffic, by default, on modern email systems?

- A. 23
- B. 25
- C. 80
- D. 143

**Correct Answer: D**

**QUESTION 32**

Karen, a network technician, wants to use a packet analyzer to troubleshoot a reported problem with a user's workstation with IP address 192.168.1.45. To identify the workstation's packets Karen wants to use the workstation's MAC address. Which of the following protocols would provide the needed information?

- A. DHCP
- B. ARP
- C. DNS
- D. PING

**Correct Answer: B**

**QUESTION 33**

Joe, a customer, shares a building with several other tenants. He reports that an unencrypted wireless network has been getting slower while his internet traffic has steadily been increasing. Which of the following should be configured to resolve this problem?

- A. VLAN
- B. MTU
- C. WPA
- D. SSID

**Correct Answer: C**

**QUESTION 34**

Which of the following allows for multiple backend web servers to be accessed through a single public IP address?

- A. Traffic shaping
- B. Caching engines
- C. Port address translation
- D. Quality of service prioritization

**Correct Answer: C**

**QUESTION 35**

Sandy, a technician, is asked to install a wireless router in a company's public cafe area. The company wants the public to be able to connect to the wireless network with minimal security, but not be able to connect to the private internal network. Which of the following firewall rules would BEST accomplish this?

- A. Content filtering on the wireless access point
- B. Allow traffic from the wireless access point
- C. Block traffic from the wireless access point
- D. Packet filtering on the wireless access point

**Correct Answer: C**

**QUESTION 36**

Which of the following utilities would Karen, a technician, use to resolve the FQDN of a web server to its IP address?

- A. netstat
- B. route
- C. nslookup
- D. arp

**Correct Answer: C**

**QUESTION 37**

Sandy, an administrator, has been tasked with running cables from one office to another neighboring office by running cables over the light fixtures in the ceiling that connects them. To prevent interference, which of the following cable types should Sandy use?

- A. CAT5e

- B. CAT6
- C. Coaxial
- D. Multimode fiber

**Correct Answer: D**

**QUESTION 38**

Joe, the network technician, is configuring the channels being used within the WLAN, to ensure a minimal amount of interference. Which of the following channel setups would be used to avoid overlap?

- A. 2, 6, 10
- B. 1, 6, 11
- C. 1, 7, 10
- D. 1, 2, 3

**Correct Answer: B**

**QUESTION 39**

Karen, an administrator, wants to verify which protocols are in use on the network. Which of the following tools should she use?

- A. Intrusion detection software
- B. PoE
- C. Packet sniffer
- D. Intrusion prevention software

**Correct Answer: C**

**QUESTION 40**

Joe, a network administrator, would like to ensure that the footprint of the company's wireless coverage is limited to the office borders, located on the premises. Which of the following features should he adjust on all of the company's WAPs to make this change?

- A. SSID masking
- B. PPPOE
- C. Transmission power
- D. Encryption technology

**Correct Answer: C**

**QUESTION 41**

Which of the following exterior routing protocols uses an algorithm to determine the quickest route to a destination?

- A. RIP
- B. OSPF
- C. BGP
- D. RIPv2

**Correct Answer: C**

**QUESTION 42**

After installing new cabling, Karen, a technician, notices that several computers are connecting to network resources very slowly. Which of the following tools would BEST help in determining if the new cabling is the cause of the problem?

- A. Multimeter
- B. Cable certifier
- C. Cable tester
- D. Toner probe

**Correct Answer: B**

**QUESTION 43**

Which of the following would be an IP address received from APIPA?

- A. 10.0.0.100
- B. 172.168.0.100
- C. 169.254.0.100
- D. 192.168.0.100

**Correct Answer: C**

**QUESTION 44**

Kurt, a technician, wants to prevent users from visiting social networking sites. Which of the following should be configured on the firewall to BEST achieve this?

- A. PAT
- B. Content filter
- C. Implicit deny
- D. NAT

**Correct Answer: B**

**QUESTION 45**

The ISP needs to terminate the WAN connection. The connection should be located in the network server room where the company LAN equipment resides. Which of the following identifies the location?

- A. Smart jack
- B. MDF
- C. VPN
- D. 66 block

**Correct Answer: B**

**QUESTION 46**

Which of the following OSI model layers is used for logical addressing?

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

**Correct Answer: C**

**QUESTION 47**

Sandy, the network technician, needs to run a cable through a power distribution room that contains a high voltage transformer. Which of the following would be used to minimize EMI interference?

- A. FTP
- B. STP
- C. UTP
- D. RTP

**Correct Answer: B**

**QUESTION 48**

Kurt, a network technician, is setting up a router and wants to ensure the fastest convergence of the routing information. Which of the following protocols would be BEST for him to use?

- A. RIP
- B. VLSM
- C. OSPF
- D. STP

**Correct Answer: C**

**QUESTION 49**

Which of the following is the MOST economical way for Sandy, a technician, to implement 10-Gigabit Ethernet at a datacenter?

- A. 10GBaseLR
- B. 10GBaseSR
- C. 10GBaseX
- D. 10GBaseT

**Correct Answer: D**

**QUESTION 50**

T568B wiring scheme is typically found on which of the following components?

- A. Demarc extension
- B. 66 block
- C. Patch panel
- D. Vertical cross connect

**Correct Answer: C**

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