

N10-007.138q

Number: N10-007
Passing Score: 800
Time Limit: 120 min



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N10-007

CompTIA Network+ Certification Exam

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Exam A

QUESTION 1

A network administrator has been given a network of 172.16.85.0/21 and wants to know the usable range of IP addresses on that subnet. Which of the following indicates the correct IP address range?

- A. 172.16.80.0-172.16.85.254
- B. 172.16.80.0-172.16.88.255
- C. 172.16.80.1-172.16.87.254
- D. 172.16.80.1-172.16.85.255

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

A network technician is troubleshooting wireless network issues in a crowded office complex and suspects there is interference from nearby wireless networks. Which of the following should the technician perform to discover possible interference?



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- A. Site survey
- B. Vulnerability scanning
- C. Wardriving
- D. Checking logical diagram
- E. Bandwidth test

Correct Answer: A

Section: (none)

Explanation

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Explanation/Reference:

QUESTION 3

A network technician is troubleshooting an issue and has established a theory of probable cause. Which of the following steps should the network technician take NEXT?

- A. Test the possible solution
- B. Question the users
- C. Determine what has changed
- D. Document the theory

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

A network administrator configures a router with the following IP address information:

Gigabit Ethernet 1 Interface: 10.10.0.1/24

Serial 0 Interface: 10.10.0.253/30

Clients are connected to a switch on the gigabit Ethernet interface; the ISP is connected to the Serial 0 interface. When the router configuration is complete and client devices are reconfigured, all clients report that they are unable to connect to the Internet. Which of the following is the MOST likely reason?

- A. The router was configured with an incorrect IP address
- B. The router was configured with an incorrect default gateway
- C. The router was configured with an incorrect subnet mask
- D. The router was configured with an incorrect loopback address

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

A penetration tester has been tasked with reconnaissance to determine which ports are open on the network. Which of the following tasks should be done FIRST? (Choose two.)

- A. Network scan
- B. Banner grab
- C. Tracert
- D. DHCP server check
- E. Brute-force attack

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

Users are reporting Internet connectivity issues. The network administrator wants to determine if the issues are internal to the company network or if there is an issue with the ISP. Which of the following tools should be used to BEST determine where the outage is occurring?

- A. traceroute
- B. ping
- C. nslookup
- D. netstat

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

Which of the following security mechanisms dynamically assigns a Layer 2 address and restricts traffic only to that Layer 2 address?

- A. Sticky MAC
- B. 802.1x
- C. ACL

D. NAC

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

Which of the following is a vulnerable system designed to detect and log unauthorized access?

A. SIEM

B. Honeypot

C. DMZ

D. Proxy server

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

According to the OSI model, at which of the following layers is data encapsulated into a packet?

A. Layer 2

B. Layer 3

C. Layer 4

D. Layer 5

E. Layer 6

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

A network technician notices the site-to-site VPN and Internet connection have not come back up at a branch office after a recent power outage. Which of the following is an out-of-band method the technician would MOST likely utilize to check the branch office's router status?

- A. Use a modem to console into the router
- B. Walk a user through troubleshooting the connection
- C. Travel to the branch office
- D. Hire a contractor to go on-site

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

A network technician is considering opening ports on the firewall for an upcoming VoIP PBX implementation. Which of the following protocols is the technician MOST likely to consider? (Choose three.)

- A. SIP
- B. NTP
- C. H.323
- D. SMB
- E. ICMP
- F. RTP
- G. IPSec
- H. RDP

Correct Answer: ACF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

A device operating at Layer 3 of the OSI model uses which of the following protocols to determine the path to a different network?

- A. STP
- B. RTP
- C. RIP
- D. NTP
- E. SIP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

A network administrator is setting up a web-based application that needs to be continually accessible to the end users. Which of the following concepts would BEST ensure this requirement?

- A. High availability
- B. Snapshots
- C. NIC teaming
- D. Cold site

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

Which of the following devices should a network administrator configure on the outermost part of the network?

- A. Media converter
- B. Switch
- C. Modem
- D. Firewall

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

A company finds that many desktops are being reported as missing or lost. Which of the following would BEST assist in recovering these devices?

- A. Asset tracking tags
- B. Motion detectors
- C. Security guards
- D. Computer locks

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

A technician is connecting a router directly to a PC using the G1/0/1 interface. Without the use of auto-sensing ports, which of the following cables should be used?



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- A. Straight-through
- B. Console
- C. Rollover
- D. Crossover

Correct Answer: D

Section: (none)

Explanation

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Explanation/Reference:

QUESTION 17

A technician is diagnosing an issue with a new T1 connection. The router is configured, the cable is connected, but the T1 is down. To verify the configuration of the router, which of the following tools should the technician use?

- A. Loopback adapter
- B. Cable tester
- C. Tone generator
- D. Multimeter

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

A network technician receives a call from a user who is experiencing network connectivity issues. The network technician questions the user and learns the user brought in a personal wired router to use multiple computers and connect to the network. Which of the following has the user MOST likely introduced to the network?

- A. Rogue DHCP server
- B. Evil twin
- C. VLAN mismatch
- D. Honeypot

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

A technician is setting up a direct connection between two older PCs so they can communicate but not be on the corporate network. The technician does not have access to a spare switch but does have spare Cat 6 cables, RJ-45 plugs, and a crimping tool. The technician cuts off one end of the cable. Which of the following

should the technician do to make a crossover cable before crimping the new plug?

- A. Reverse the wires leading to pins 1 and 2
- B. Reverse the wires leading to pins 1 and 3
- C. Reverse the wires leading to pins 2 and 3
- D. Reverse the wires leading to pins 2 and 4

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

Which of the following is the number of broadcast domain that are created when using an unmanaged 12-port switch?

- A. 0
- B. 1
- C. 2
- D. 6
- E. 12

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

A network engineer wants to segment the network into multiple broadcast domains. Which of the following devices would allow for communication between the segments?

- A. Layer 2 switch
- B. Layer 3 switch
- C. Bridge
- D. Load balancer

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

The Chief Information Officer (CIO) has noticed the corporate wireless signal is available in the parking lot. Management requests that the wireless network be changed so it is no longer accessible in public areas, without affecting the availability inside the building. Which of the following should be changed on the network?

- A. Power levels
- B. Overcapacity
- C. Distance limitations
- D. Channel overlap

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

A network technician is assisting the security team with some traffic captures. The security team wants to capture all traffic on a single subnet between the router and the core switch. To do so, the team must ensure there is only a single collision and broadcast domain between the router and the switch from which they will collect traffic. Which of the following should the technician install to BEST meet the goal?

- A. Bridge
- B. Crossover cable
- C. Hub
- D. Media converter

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

Based on networks 10.8.16.0/22 and 10.8.31.0/21, which of the following is the BEST summarized CIDR notation?

- A. 10.8.0.0/16
- B. 10.8.0.0/19
- C. 10.8.0.0/20
- D. 10.0.0.0/24

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

A technician discovers that multiple switches require a major update. Which of the following policies should be followed?

- A. Change management policy
- B. Remote access policy
- C. Acceptable use policy
- D. Memorandum of understanding

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

A technician is troubleshooting a point-to-point fiber-optic connection. The technician is at a remote site and has no connectivity to the main site. The technician confirms the switch and the send-and-receive light levels are within acceptable range. Both fiber SFPs are confirmed as working. Which of the following should the technician use to reveal the location of the fault?

- A. OTDR
- B. Light meter

- C. Tone generator
- D. CSU/DSU

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

A Chief Information Officer (CIO) wants to move some IT services to a cloud service offering. However, the network administrator still wants to be able to control some parts of the cloud service's networking components. Which of the following should be leveraged to complete this task?

- A. IaaS
- B. PaaS
- C. SaaS
- D. DaaS

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

A network technician is working on a proposal for email migration from an on-premises email system to a vendor-hosted email in the cloud. The technician needs to explain to management what type of cloud model will be utilized with the cloud-hosted email. Which of the following cloud models should the technician identify in the proposal?

- A. IaaS
- B. PaaS
- C. SaaS
- D. MaaS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

Which of the following is the correct port number for NTP?

- A. 25
- B. 69
- C. 123
- D. 161

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

A network technician is connecting two switches together. Which of the following protocols should the technician use to increase speed and fault tolerance?

- A. SIP
- B. BGP
- C. LACP
- D. LLDP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

A company has a web-based application that is used by many different departments. The company has experienced some overload of resources on the database server. The network administrator implements a network device in between the servers and the database. Which of the following BEST describes the purpose of this device?

- A. Content filtering and network analysis
- B. Load balancing and providing high availability
- C. Port sniffing and protocol analysis
- D. Clustering and NIC teaming

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

A technician is replacing a switch at a branch office and discovers the existing backbone cable does not fit in the new switch. The fiber patch panel has circular connections. The new switch has a transceiver that accepts a smaller square adapter of two strands. Which of the following patch cables would the technician need to complete the installation?

- A. LC to SC
- B. SC to ST
- C. LC to ST
- D. ST to ST
- E. SC to SC

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

A computer lab on a campus network was recently reconfigured using recycled network cables. One of the 24 computers in the lab is unable to connect to the network after the upgrade. A network technician successfully uses the cable in question to connect directly to another computer. Which of the following is MOST likely issue with the cable?

- A. The cable is a crossover cable
- B. The cable is rollover cable
- C. The cable has bent pins

D. The cable is a Cat 5 cable

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

Which of the following is a reason why a business may be hesitant to move sensitive data to a SaaS cloud service?

- A. Decreased performance of internal network
- B. Loss of full control over data resources
- C. Increased malware exposure
- D. Incompatibility with the current network

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

Users have been experiencing slow network response times, and management has asked the network technician to provide evidence of network improvement. After optimizing the network, which of the following would be required?

- A. IDF/MDF documentation
- B. Change management
- C. Performance baseline
- D. Physical diagram

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

A network technician has created a network that consists of a router, a firewall, a switch, and several PCs. Which of the following physical network topologies was created?

- A. Star
- B. Mesh
- C. Ring
- D. Bus

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

A technician is setting up a branch office on a point-to-point connection. Which of the following IP network blocks is the MOST efficient use of IP address space for the router connections between the two sites?

- A. /24
- B. /25
- C. /30
- D. /32

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

A technician is upgrading the firmware on an older KVM switch. The specifications call for a serial port to connect to the computer on one side, and an Ethernet jack to connect to the switch on the other side. Which of the following connectors does the technician need for this cable? (Choose two.)

- A. RG-9
- B. DB-9

- C. RJ-11
- D. DB-25
- E. RJ-45
- F. BNC

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

An end-user device requires a specific IP address every time it connects to the corporate network; however, corporate policy does not allow the use of static IP addresses. Which of the following will allow the request to be fulfilled without breaking the corporate policy?

- A. DHCP relay
- B. DHCP exclusion
- C. DHCP option
- D. DHCP reservation

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

A technician is planning a remote-access strategy to manage routers and switches on a dedicated management network. The management network is segregated from the production network and uses site-to-site VPN connections. Some of the equipment does not support encryption. Which of the following should the technician choose that all the equipment would support?

- A. Telnet
- B. SSL
- C. SSH
- D. IPSec

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

Which of the following protocols do MOST MITM attacks utilize?

- A. ARP
- B. SIP
- C. FTP
- D. SCP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

An ISP technician gets a call from a business that just changed equipment but can no longer connect to the Internet. The technician checks the ARP table on the ISP switch, and there is no corresponding MAC address present. Instead, the entry is "Incomplete". Which of the following could cause this condition?

- A. VLAN mismatch
- B. Duplex/Speed mismatch
- C. Duplicate IP address
- D. TX/RX reverse

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

A systems administrator has recently purchased and installed a large electronic signage screen for the company's parking garage. The screen's management

software was installed on a server with public IP address to allow remote management. The systems administrator is now troubleshooting an issue with the screen displaying unknown, random, and inappropriate messages. Which of the following is MOST effective in resolving this issue?

- A. Changing the management software's default credentials
- B. Disabling unnecessary services from the server and management software
- C. Changing the management software's default port
- D. Replacing the management software's self-signed certificate with a valid certificate

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

A technician is investigating a server performance issue. The technician has gathered the server utilization statistics. Which of the following should the technician use to determine which statistics are not in the normal range?

- A. Baseline review
- B. Vulnerability scan
- C. System life-cycle report
- D. Archiving logs

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

Which of the following devices, if implemented, would result in decreased administration time of an 802.11 network running centralized authentication services? (Choose two.)

- A. VPN concentrator
- B. Proxy server
- C. Wireless controller
- D. RADIUS server

E. Multilayer switch

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

A technician must determine if a web page user's visits are connecting to a suspicious website's IP address in the background. Which of the following tools would provide the information on TCP connections?

- A. netstat
- B. tracert
- C. arp
- D. ipconfig
- E. route

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

An administrator is moving to a new office. There will be several network runs through the ceiling area of the office. Which of the following is the BEST to utilize in these areas?



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- A. Single-mode fiber-optic cabling
- B. Cat 5e-rated cabling
- C. Cat 6-rated cabling

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D. Plenum-rated cabling

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 48

A network technician receives a spool of Cat 6a cable and is asked to build several cables for a new set of Ethernet runs between devices. Which of the following tools are MOST likely needed to complete the task? (Choose three.)

- A. Wire stripper
- B. Cable crimper
- C. RJ-11 connectors
- D. RJ-45 connectors
- E. Multimeter
- F. Punchdown tool
- G. Tone generator

Correct Answer: ABD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

As part of a transition from a static to a dynamic routing protocol on an organization's internal network, the routing protocol must support IPv4 and VLSM. Based on those requirements, which of the following should the network administrator use? (Choose two.)

- A. OSPF
- B. IS-IS
- C. RIPv1
- D. BGP
- E. VRRP

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

A telecommunications provider has just deployed a new OC-12 circuit at a customer site. While the circuit showed no errors from the provider end to the customer's demarcation point, a network administrator is trying to determine the cause of dropped packets and errors on the circuit. Which of the following should the network administrator do to rule out any problems at Layer 1? (Choose two.)

- A. Use a loopback at the demark and router, and check for a link light
- B. Use an OTDR to validate the cable integrity
- C. Use a pinout tester to validate the cable integrity
- D. Use a multimeter to validate the cable integrity
- E. Check for any devices that may be causing EMI on the cable
- F. Clean the cables to be sure they are free of dust and debris

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

A single PRI can deliver multiple voice calls simultaneously using which of the following Layer 1 technologies?

- A. Time division multiplexing
- B. Analog circuit switching
- C. CSMA/CD
- D. Time division spread spectrum

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 52

A network technician is diagnosing a time-out issue generated from an end user's web browser. The web browser issues standard HTTP get and post commands to interact with the website. Given this information, the technician would like to analyze the entire TCP handshake of the HTTP requests offline. Which of the following tools would allow the technician to view the handshake?

- A. Packet analyzer
- B. Port analyzer
- C. SNMP traps
- D. Spectrum analyzer

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 53

A customer cannot access a company's secure website. The company's network security is reviewing the firewall for the server and finds the following output:

Time	Action	Src IP	Src Port	Dst IP	Dst Port
0902	Allow	12.73.15.5	31865	10.5.0.10	80
1005	Deny	12.73.15.5	31866	10.5.0.10	443
1006	Deny	12.73.15.5	31890	10.5.0.10	443

Which of the following changes should be made to allow all customers to access the company's secure website?

- A. Allow any any 10.5.0.10 443
- B. Allow any any 12.73.15.5 443
- C. Allow 10.5.0.10 443 any any
- D. Allow 10.5.0.10 any 10.5.0.10 80

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 54

Which of the following is a system of notation that uses base 16 rather than base 10?

- A. Hex
- B. Octal
- C. Binary
- D. CIDR

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

A network administrator would like to collect information from several networking devices using SNMP. Which of the following SNMP options should a network administrator use to ensure the data transferred is confidential?

- A. authpriv
- B. SHA
- C. MD5
- D. Authentication passphrase

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 56

The IT manager at a small firm is in the process of renegotiating an SLA with the organization's ISP. As part of the agreement, the organization will agree to a dynamic bandwidth plan to provide 150Mbps of bandwidth. However, if the ISP determines that a host on the organization's internal network produces malicious traffic, the ISP reserves the right to reduce available bandwidth to 1.5 Mbps. Which of the following policies is being agreed to in the SLA?

- A. Session hijacking
- B. Blocking
- C. Throttling
- D. Data usage limits
- E. Bandwidth quotas

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

A network technician has just configured NAC for connections using Cat 6 cables. However, none of the Windows clients can connect to the network. Which of the following components should the technician check on the Windows workstations? (Choose two.)

- A. Start the Wired AutoConfig service in the Services console
- B. Enable IEEE 802.1q Authentication in Network Interface Card Properties
- C. Enable IEEE 802.1x Authentication in Network Interface Card Properties
- D. Start the Wireless AutoConfig service in the Services console
- E. Enable IEEE 802.3 Ethernet IPv6 in Network Interface Card Properties

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 58

The security manager reports that individual systems involved in policy or security violations or incidents cannot be located quickly. The security manager notices the hostnames all appear to be randomly generated characters. Which of the following would BEST assist the security manager identifying systems involved in security incidents?

- A. Enforce port security to require system authentication
- B. Implement a standardized UNC
- C. Label existing systems with current hostnames

D. Forward the DHCP logs to the security manager every day

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59

A building is equipped with light sensors that turn off the fluorescent lights when natural light is above a certain brightness. Users report experiencing network connection issues only during certain hours. The west side of the building experiences connectivity issues in the morning hours and the east side near the end of the day. At night the connectivity issues affect the entire building. Which of the following could be the cause of the connectivity issues?

- A. Light sensors are interfering with the network
- B. EMI from the lights is interfering with the network cables
- C. Network wiring is run perpendicular to electrical conduit
- D. Temperature changes are causing attenuation in copper cabling

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60

A network technician configures a firewall's ACL to allow outgoing traffic for several popular services such as email and web browsing. However, after the firewall's deployment, users are still unable to retrieve their emails. Which of the following would BEST resolve this issue?

- A. Allow the firewall to accept inbound traffic to ports 25, 67, 179, and 3389
- B. Allow the firewall to accept inbound traffic to ports 80, 110, 143, and 443
- C. Set the firewall to operate in transparent mode
- D. Allow the firewall to accept inbound traffic to ports 21, 53, 69, and 123

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 61

A network security technician observes multiple attempts to scan network hosts and devices. All the attempts originate from a single host on the network. Which of the following threats is MOST likely involved?

- A. Smurf attack
- B. Rogue AP
- C. Compromised system
- D. Unintentional DoS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 62

Which of the following would be the MOST efficient subnet mask for a point-to-point link?

- A. /28
- B. /29
- C. /31
- D. /32

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 63

An office user cannot access local network drives but has full access to the Internet. A technician troubleshoots the issue and observes the following output of the ipconfig command:

Windows IP Configuration

Ethernet LAN Adapter: 980GTS
Connection-specific DNS Suffix: ...comptia.net
IPv4 Address:10.0.5.99
Subnet Mask:255.255.255.0
Default Gateway: ...10.0.5.1

Wireless LAN Adapter: FastWifi 99
Connection-specific DNS Suffix: ...guestwireless.local
IPv4 Address:172.16.0.5
Subnet Mask:255.255.255.0
Default Gateway: ...172.16.0.254

Which of the following would MOST likely allow the network drives to be accessed?

- A. Update the WLAN adapter driver
- B. Disable the WLAN adapter
- C. Check the wireless DHCP configuration
- D. Disable the LAN adapter

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 64

Ann, a network technician, has just installed a fiber switch in a datacenter. To run the fiber cabling, Ann plans the cable route over the top of the rack using the cable trays, down to the switch, coiling up any excess cable. As Ann configures the switch, she notices several messages in the logging buffer stating the receive signal of the SFP is too weak. Which of the following is MOST likely the cause of the errors in the logging buffer?

- A. Bend radius exceeded
- B. Fiber cable mismatch
- C. Fiber type mismatch

D. Bad fiber switch

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 65

Which of the following wireless connection types utilize MIMO on non-overlapping channels? (Choose two.)

- A. 802.11a
- B. 802.11ac
- C. 802.11b
- D. 802.11g
- E. 802.11n

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 66

A network technician is creating a new subnet for 488 host machines. The technician is told to use a class B address scheme when making the subnet and is instructed to leave as much room as possible for additional subnets of the same size. Which of the following subnets would fulfill these requirements?

- A. 10.5.4.0/22
- B. 10.233.2.0/23
- C. 172.16.0.0/22
- D. 172.18.0.0/23
- E. 192.168.25.0/24

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 67

A network engineer is designing a new IDF in an old building. The engineer determines the equipment will fit in a two-post rack, and there is power available for this equipment. Which of the following would be the FIRST issue to remediate?

- A. Air flow and cooling
- B. UPS capability
- C. Circuit labeling
- D. Power redundancy

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 68

Which of the following DNS records needs to be configured for SMTP traffic?

- A. MX
- B. CNAME
- C. AAAA
- D. PTR

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 69

In which of the following ways does a DDoS attack differ from a spoofing attack?

- A. DDoS attacks target multiple networks
- B. Spoofing attacks originate from a single host

- C. DDoS attacks are launched from multiple hosts
- D. Spoofing attacks require physical presence

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 70

A user checks an IP address using an external website. The address is different than the one the user sees when opening a command prompt and typing in ipconfig/all. The user does not understand why the two tools show different IP addresses. This is BEST explained by the interworking of:

- A. network devices
- B. packet flow
- C. public/private networks
- D. traffic-routing protocols

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 71

Which of the following communication media can carry many voice, data, and video channels simultaneously over multiple frequencies?

- A. Broadband
- B. Baseband
- C. Analog modem
- D. CSMA

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 72

To replace a defective UPS, the network administrator must take the switch offline. The administrator wants to be able to perform maintenance UPS in the future without affecting the availability of the attached switch. Which of the following would BEST allow this to happen?

- A. Add a redundant power supply to the switch
- B. Implement stacking on the switches in the rack
- C. Add a second UPS into the rack
- D. Install a power converter for the switch

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 73

A forensic first responder arrives at the scene where an employee is suspected to have committed a computer-based crime. Which of the following should the first responder do FIRST?

- A. Document the scene
- B. Take pictures upon arrival
- C. Secure the area
- D. Implement chain of custody

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 74

A small town is attempting to attract tourists who visit larger nearby cities. A network engineer is asked to implement a network encompassing the five-block town center and nearby businesses. The inclusion of smartphones and portable devices is crucial to the plan. Which of the following is the network engineer being asked to implement?

- A. LAN
- B. PAN
- C. MAN
- D. WAN

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 75

An employee wishes to use a personal cell phone for work-related purposes, including storage of sensitive company data, during long business trips. Which of the following is needed to protect BOTH the employee and the company?

- A. An NDA ensuring work data stored on the personal phone remains confidential
- B. An AUP covering how a personal phone may be used for work matters
- C. A consent to monitoring policy covering company audits of the personal phone
- D. Real-time remote monitoring of the phone's activity and usage

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 76

Which of the following protocols can be both connection-oriented and connectionless?

- A. 20 FTP
- B. 53 DNS
- C. 67 DHCP
- D. 80 HTTP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 77

Which of the following BEST describes the differences between VLAN hopping and session hijacking?

- A. VLAN hopping involves the unauthorized transition from one VLAN to another to gain additional access. Session hijacking involves overriding a user's web connection to execute commands
- B. VLAN hopping is a brute force attack executed to gain additional access. Session hijacking involves physically disrupting a network connection
- C. VLAN hopping involves overriding a user network connection to execute malicious commands. Session hijacking involves compromising a host to elevate privileges
- D. VLAN hopping is the act of exploiting poor VLAN tagging. Session hijacking is a web-based attack aimed at privilege escalation

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 78

An analyst is developing a proof of concept of a wireless-based attack as part of a penetration test against an organization's network. As part of the attack, the analyst launches a fake access point matching the SSID of the organization's guest access network. When a user connects to the fake access point, the analyst allows the traffic to flow through the access point to the legitimate site while the data traversing the network is logged for latest analysis and exploitation. Which of the following attacks has the analyst successfully performed in this scenario?

- A. Bluesnarfing
- B. Session hijacking
- C. MAC spoofing
- D. VLAN hopping
- E. Man-in-the-middle

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 79

A network administrator receives a call from the sales department requesting ports 20 and 21 be opened on the company's firewall to allow customers to retrieve a large file. Which of the following should the administrator perform BEFORE making the needed changes? (Choose two.)

- A. Document the reason for the request
- B. Scan the file for malware to protect the sales department's computers
- C. Follow the company's approval process for the implementation
- D. Install a TFTP server for the customers to use for the transfer
- E. Create a honeypot to store the file on for the customers to use
- F. Write the SLA for the sales department authorizing the change

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 80

A user reports that a laptop cannot connect to the Internet despite the fact the wireless Internet was functioning on it yesterday. The user did not modify the laptop in any way, and the wireless Internet is functional on other users' laptops. Which of the following issues should be reviewed to help the user to connect to the wireless network?

- A. Wireless switch toggled off
- B. WAP settings
- C. WLAN IP address out of scope
- D. Wireless controller misconfiguration

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 81

A network administrator wants to increase the confidentiality of the system by hardening the authentication process. Currently, the users log in using usernames

and passwords to access the system. Which of the following will increase the authentication factor to three?

- A. Adding a fingerprint reader to each workstation and providing a RSA authentication token
- B. Adding a fingerprint reader and retina scanner
- C. Using a smart card and RSA token
- D. Enforcing a stronger password policy and using a hand geometry scan

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 82

A network technician is building a network for a small office. The office currently has cable TV and now requires access to the Internet without adding any cabling other than what is already in place. Which of the following solutions should the technician install to meet these requirements?

- A. DOCSIS modem
- B. Wireless router
- C. DSL modem
- D. Access point

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 83

A network engineer arrives at work and discovers that many users are having problems when attempting to connect to the company network shared drives. The network operations center (NOC) technician just completed server upgrades the night before. To which of the following documents should the NOC technician refer to determine what potentially caused the connectivity problem?



- A. Network maps
- B. Cable management
- C. Release notes
- D. Change management

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 84

Which of the following VPN protocols establishes a secure session that can be initiated using a browser?

- A. IPSec
- B. SSL VPN
- C. PTP
- D. PPTP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 85

A technician is setting up a public guest network for visitors to access the Internet that must be separate from the corporate network. Which of the following are the BEST steps for the technician to take with minimum overhead configuration? (Choose two.)

- A. Enable SSID broadcasting to identify the guest network
- B. Configure visitor devices to use static IP addresses
- C. Enable two-factor authentication on visitor devices
- D. Configure the access point to use WPA2-AES encryption
- E. Ensure the access point is not running in mixed mode

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 86

When choosing a type of storage that integrates with the existing network infrastructure, the storage must be easily configurable to share files and can communicate with all existing clients over TCP/IP. Which of the following is the BEST technology for the network administrator to implement?

- A. iSCSI
- B. Fibre Channel
- C. NAS
- D. DAS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 87

A network technician is installing a new network switch is looking for an appropriate fiber optic patch cable. The fiber optic patch panel uses a twist-style connector. The switch uses a SFP module. Which of the following connector types should the fiber patch cable have?

- A. LC
- B. ST
- C. SC
- D. MTRJ
- E. MTP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 88

Which of the following WAN technologies utilizes the concept of virtual circuits and point-multipoint connections?

- A. ISDN
- B. MPLS
- C. PRI
- D. Broadband cable
- E. Frame relay

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 89

A network administrator wishes to ensure there are no unnecessary open communication paths into a server. Using a port scanner, the administrator finds that ports are reported as closed. Which of the following BEST explains this response?

- A. The ports belong to an active system and are denying requests
- B. The ports are associated with deprecated services
- C. The ports do not belong to a live system
- D. The ports replied with a SYN/ACK response

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 90

Which of the following datacenter security methodologies is MOST likely to remain usable during a network outage?

- A. biometric scanners
- B. door locks

- C. video surveillance
- D. motion detectors

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 91

A network technician is implementing a solution on the network to hide the workstation internal IP addresses across a WAN. Which of the following is the technician configuring?

- A. QoS
- B. DMZ
- C. RIP
- D. NAT

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 92

Employees want the ability to use personal devices on the guest network while working out at the company gym. In order to meet the request, which of the following policies requires employee adherence?

- A. AUP
- B. SLA
- C. NDA
- D. MOU

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 93

Which of the following BEST describes the BGP routing protocol?

- A. distance vector
- B. hybrid
- C. static
- D. link state

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 94

A customer is reporting difficulty connecting some devices after replacing a wireless router with a new wireless 802.11ac router. The SSID, encryption and password are the same as the previous router. A technician goes on-site and notices the devices that are no longer connecting appear to be several years ago. Which of the following is MOST likely the problem?

- A. the password needs to be re-entered.
- B. there is a security type mismatch.
- C. there is insufficient antenna power.
- D. there is a frequency mismatch.
- E. the channel has changed.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 95

Multiple users are reporting that they are unable to access the network. The ENTIRE network is shown in the diagram. PCs are not statically assigned IP addresses. The following devices will display settings:

- WorkstationA
- WorkstationB
- WorkstationC
- WorkstationD
- WorkstationE
- WorkstationF
- WorkstationG
- Laptop1
- Laptop2
- DHCP server1
- DHCP server2

Review the settings and select the box in the diagram that identifies the device causing the issue. Only one device can be selected at a time.

After checking the device that is causing the issue, select the second tab in the lower left hand corner. Identify the reason as to why some users are unable to access the network.

Instructions:

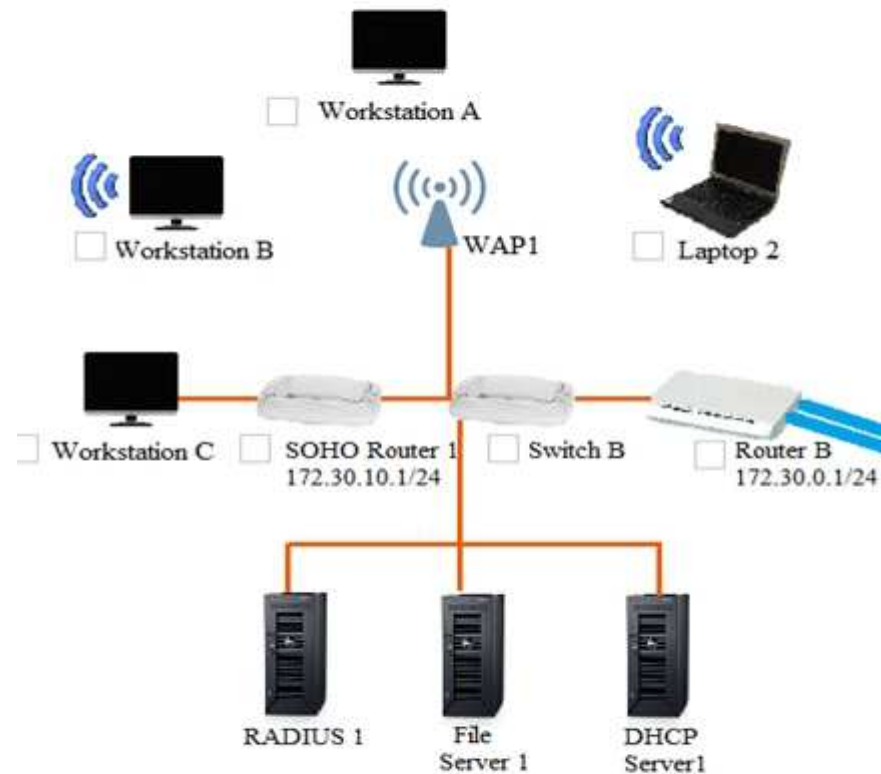
When the simulation is complete, select the Done button to submit.

Part 1

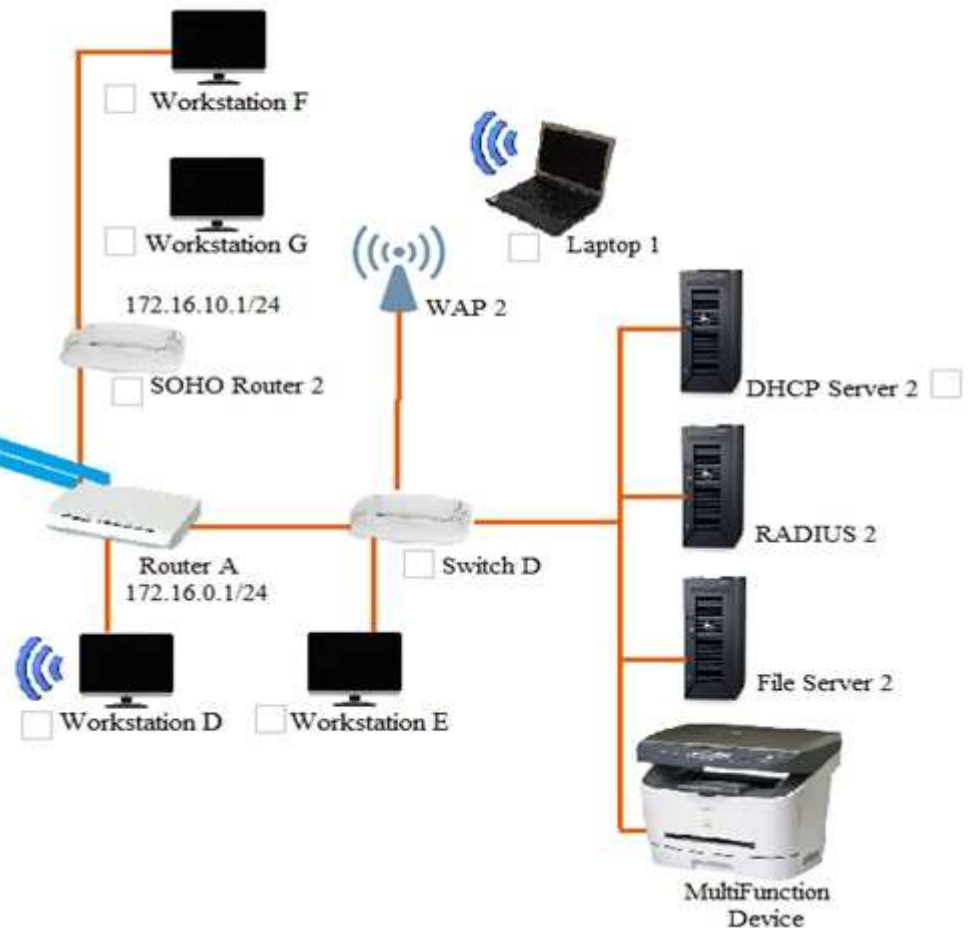
Site A and B Network Diagram

Instructions: Only one device can be selected at a time. Please ensure you complete Part 1 and Part 2 of the simulation.

SITE A



SITE B



WORKSTATION A

IP Address	172.30.0.10
Netmask	255.255.255.0
Gateway	172.30.0.1

OK

WORKSTATION B

IP Address	172.30.0.14
Netmask	255.255.255.0
Gateway	172.30.0.1

OK

WORKSTATION C

IP Address	169.254.200.67
Netmask	255.255.255.0
Gateway	

OK

WORKSTATION D

IP Address	172.16.0.221
Netmask	255.255.255.0
Gateway	172.16.0.1

OK

WORKSTATION E

IP Address	172.16.0.21
Netmask	255.255.255.0
Gateway	172.16.0.1

OK

WORKSTATION F

IP Address	172.16.10.43
Netmask	255.255.255.0
Gateway	172.16.10.1

OK

WORKSTATION G

IP Address	172.16.10.120
Netmask	255.255.255.0
Gateway	172.16.10.1

OK

LAPTOP 1

IP Address	172.16.0.220
Netmask	255.255.255.0
Gateway	172.16.0.1

OK

LAPTOP 2

IP Address	172.30.0.12
Netmask	255.255.255.0
Gateway	172.30.0.1

OK

DHCP SERVER 1

IP Address	172.30.0.5
Netmask	255.255.255.0
Gateway	172.30.0.1

DHCP Scope	172.30.0.10-250
Gateway	172.30.0.1
DNS Servers	10.200.2.20, 10.200.3.20
DHCP Lease Time	8 days

OK

DHCP SERVER 2

IP Address	172.30.0.5
Netmask	255.255.255.0
Gateway	172.16.0.1

DHCP Scope	172.16.0.10-250
Gateway	172.16.0.1
DNS Servers	10.200.2.20, 10.200.3.20
DHCP Lease Time	8 days

OK

Part 2

Identify the reason as to why some users are unable to access the network.

- A. Workstation(s) are plugged into switch ports configured with half duplex.
- B. The site-to-site router was configured with the incorrect ACL.
- C. DHCP server scope is full and is not providing IP addresses.
- D. WAN and LAN ports are reversed on the router.
- E. STP had disabled some of the ports on the switch.
- F. The NIC driver is not installed.
- G. A wireless client is unable to associate to the AP.

Correct Answer: G

Section: (none)

Explanation

Explanation/Reference:

QUESTION 96

Which of the following should be performed to verify that unnecessary services are disabled on all switches in an environment?

- A. Packet capturing
- B. Port scanning
- C. Log scanning
- D. Baseline review

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 97

A technician is sent to a remote office to set up a device to connect to the Internet. The company standards document requires stateful inspection. Which of the following should the technician install?

- A. Router
- B. Multiplayer switch
- C. Firewall
- D. Bridge

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 98

A technician is assigned to secure a basic wireless network. Which of the following authentication protocols should the technician use to perform this task? (Choose two.)

- A. RDP
- B. SNMP
- C. WPA2

- D. EAP
- E. SSL

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 99

A technician is investigating the cause of a network outage. Which of the following documents should be checked to rule out configuration issues?

- A. Change management records
- B. Inventory management
- C. Network log files
- D. Logical diagrams

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 100

A junior network technician receives a help desk ticket from an end user who is having trouble accessing a web application that was working the previous day. After talking with the end user and gathering information about the issue, which of the following would be the most likely course of action for the technician to perform NEXT?

- A. Establish a theory of probable cause.
- B. Escalate the ticket to a senior technician.
- C. Implement the solution.
- D. Document the findings and outcomes.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 101

A system administrator receives reports from users of odd behavior in regard to a recently installed server. While reviewing the server network configuration, the systems administrator does both a forward and a reverse DNS lookup on the host, along with the network adapter configuration.

```
$ host server.company.com
server.company.com has address 129.168.0.100
server.company.com is handled by 100 mail.company.com
$ host 192.168.0.100
100.0.168.192.in-addr.arpa domain name pointer web.company.com
$ host web.company.com
server.company.com has address 129.168.0.50
server.company.com is handled by 100 mail.company.com
$ ifconfig -a
eth0Link encap:Ethernet HWaddr 00:30:48:9D:06:73
Inet addr:192.168.0.100 Bcast:192.168.0.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
lo0Link encap:Local Loopback
inet addr:127.0.0.1 Mask:255.0.0.0
UP LOOPBACK RUNNING MTU:16436 Metric:1
```

Which of the following is the problem identified in the output above?

- A. There is no reverse DNS entry for this host.
- B. The server IP address is incorrectly configured.
- C. The DNS lookup entry is incorrectly configured.
- D. The reverse DNS entry is pointing to a different host.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 102

A network technician at a small office upgrades the LAN switch. After the upgrade, a user reports being unable to access network resources. When the technician checks the switchport, the LED light is not lit. Which of the following should the technician check FIRST?

- A. The device is using the correct cable type.
- B. The switchport is functioning properly.
- C. The device is connected to the switch.
- D. The switch is connected to the router.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 103

A network administrator wants to employ a username and password authentication system for guest WiFi. Which of the following is the BEST option to provide this type of authentication?

- A. Port security
- B. MAC filtering
- C. Network access control
- D. Captive portal

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 104

A technician is responsible for configuring a new firewall. The hardware team has already installed, powered, and connected the system. Which of the following types of documentation should the technician utilize to complete the task?

- A. Rack diagram
- B. IDF/MDF documentation

- C. Network performance baseline
- D. Logical and physical diagrams

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 105

Which of the following storage network technologies inherently leverages block-level storage?

- A. NAS
- B. SAN
- C. FCoE
- D. iSCSI
- E. FTP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 106

Which of the following networking devices operates at Layer1?

- A. Router
- B. Firewall
- C. Hub
- D. Bridge

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 107

A disgruntled employee decides to leak critical information about a company's new product. The employee places keyloggers on the department's computers, allowing the information to be sent out to the Internet. Which of the following attacks is occurring?

- A. Man-in-the-middle
- B. Logic bomb
- C. Insider threat
- D. Social engineering

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 108

A network technician needs to set up an access method for Ann, a manager, to work from home. Ann needs to locally mapped corporate resources to perform her job. Which of the following would provide secure access to the corporate resources?

- A. Utilize an SSH connection to the corporate server.
- B. Use TFTP to transfer files to corporate resources.
- C. Allow RDP through an external firewall.
- D. Connect utilizing client-to-site VPN.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 109

Which of the following DNS record types is an alias?

- A. CNAME
- B. PTR

- C. NS
- D. SRV

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 110

A recently constructed building makes use of glass and natural light. Users in the building are reporting poor cellular connectivity and speeds. Which of the following is MOST likely the cause?

- A. Absorption
- B. Channel overlap
- C. Reflection
- D. Frequency mismatch

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 111

A network technician is setting up a new router. Since it is exposed to the public, which of the following are the BEST steps the technician should take when setting up this device? (Choose two.)

- A. Disable unnecessary services.
- B. Use private IP addresses.
- C. Allow remote management access.
- D. Disable the console port.
- E. Enable encryption.
- F. Upgrade to the latest firmware.

Correct Answer: AF

Section: (none)

Explanation**Explanation/Reference:****QUESTION 112**

A network technician is configuring user access to a VPN concentrator and has been advised to use a protocol that supports encryption over UDP. Which of the following protocols has the technician MOST likely configured for client use?

- A. TFTP
- B. DTLS
- C. DNS
- D. SNMP

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:****QUESTION 113**

A switch has detected duplicate broadcast messages sourced from a second port. The broadcasts continue to be transmitted and duplicated until the amount of traffic causes severe performance issues. Which of the following should be configured to prevent this behavior?

- A. BPDU guard
- B. DHCP snooping
- C. ARP protection
- D. Spanning tree

Correct Answer: D

Section: (none)

Explanation**Explanation/Reference:****QUESTION 114**

A Chief Information Officer (CIO) is concentrated about an attacker gaining administrative access to the company's network devices. Which of the following is the MOST secure way to prevent this?

- A. ACL allowing only HTTP
- B. ACL allowing only Telnet
- C. Out-of-band modem
- D. Out-of-band console router

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 115

Which of the following DNS record types allows IPv6 records to be resolved to DNS names?

- A. PTR
- B. A
- C. AAAA
- D. SRV

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 116

A network technician has recently installed new VoIP phones at all employee's desks to support a new SIP cloud VoIP solution. However, the technician is unable to make a call from the device after testing. Which of the following should the technician verify? (Choose two.)

- A. TCP 443 is allowed.
- B. UDP 1720 is allowed.
- C. UDP 5060 is allowed.
- D. UDP 5061 is allowed.
- E. TCP 8080 is allowed.
- F. TCP 8181 is allowed.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 117

Which of the following would allow a network technician to access files on a remote system? (Choose two.)

- A. FTP
- B. TFTP
- C. VLSM
- D. SIP
- E. SMTP
- F. IMAP

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 118

Which of the following provides two-factor authentication?

- A. Username + password
- B. Smart card + PIN
- C. Fingerprint + retina scan
- D. Key fob + ID card

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 119

A technician set up a new SOHO network recently. The installed router has four Ethernet ports, however, the customer has seven devices that need wired connections. Which of the following should the technician do to BEST meet the customer's requirements?

- A. Install a six-port switch.
- B. Configure port forwarding on the router.
- C. Install WAPs near the devices.
- D. Configure the switchports as EtherChannel ports.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 120

A technician is performing a maintenance task on a weekly basis and wants to ensure the task is properly documented and able to be performed by other technicians. Which of the following types of documentation should the technician complete?

- A. Standard operating procedure
- B. Work order
- C. Performance baseline
- D. Logical diagram
- E. Change management

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 121

A company is allowing its employees to use their personal computers, tablets, and IoT devices while at work. However, there are rules and guidelines to which employees must adhere. Which of the following documents applies to these employees?

- A. NDA

- B. SOP
- C. BYOD
- D. SLA

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 122

Which of the following are characteristics of jumbo frames? (Choose two.)

- A. Commonly used on SAN
- B. MTU size greater than 1500
- C. MTU size greater than 10000
- D. Commonly used on IaaS
- E. MTU size greater than 12000

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 123

A technician is setting up VoIP phones on a wireless network. Users report that calls are choppy and sometimes dropped. The technician has measured two characteristics using simple command-line tools that verify the problem. Which of the following characteristics did the technician measure? (Choose two.)

- A. Reflection
- B. Latency
- C. Interference
- D. Packet loss
- E. Signal-to-noise ratio
- F. Attenuation

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 124

Which of the following ports should a network technician open on a firewall to back up the configuration and operating system files of a router to a remote server using the FASTEST method possible?

- A. UDP port 22
- B. TCP port 22
- C. TCP port 25
- D. UDP port 53
- E. UDP port 69

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 125

A technician is replacing a failed SOHO router for a customer who has an existing switch, cable modem, and static IP address. The user has a web server that faces the Internet so users can visit and leave comments. Which of the following BEST describes the correct configuration for this customer's requirements?

- A. The modem is placed in bridge mode, the router is placed behind the modem, and the web server is placed behind the router.
- B. The router is placed in bridge mode, the modem is placed behind the router, and the web server is placed behind the modem.
- C. The web server is placed in bridge mode, the router is placed behind the web server, and the modem is placed behind the router.
- D. The switch is placed in bridge mode, the modem is placed behind the router, and the router is placed behind the modem.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 126

A network technician is attempting to troubleshoot a connectivity issue. The issue is only reported during the evening hours, and only a single workstation loses connectivity. Which of the following is the MOST likely cause of the issue?

- A. The router has a time-based ACL, applied for the network segment.
- B. A light source is creating EMI interference, affecting the UTP cabling.
- C. Nightly backups are consuming excessive bandwidth.
- D. The user has violated the AUP, and Internet access has been restricted.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 127

A network administrator is redesigning network security after an attack. During the attack, an attacker used open cubicle locations to attach devices to the network. The administrator wants to be able to monitor future attacks in a safe environment and determine the method of attack. Which of the following should the administrator do to BEST meet this requirement?

- A. Create a VLAN for the unused ports and create a honeyspot on the VLAN.
- B. Install a BPDU guard on switchports and enable STP.
- C. Create a DMZ for public servers and secure a segment for the internal network.
- D. Install antivirus software and set an ACL on the servers.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 128

Which of the following devices are MOST often responsible for 802.1q tagging? (Choose two.)

- A. Switch
- B. Router

- C. IDS
- D. Hub
- E. IPS
- F. Network tap

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 129

A network technician is installing a new wireless network in a small office. Due to environmental concerns, the customer wants the network to run exclusively on the 5GHz frequency. Which of the following wireless technologies should the technician install to BEST meet this requirement? (Choose two.)

- A. 802.11ac
- B. 802.11b
- C. 802.11g
- D. 802.11n
- E. Bluetooth
- F. Z-Wave

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 130

Which of the following concepts would BEST describe when a company chooses to use a third-party vendor to host and administer a critical application?

- A. SaaS
- B. IaaS
- C. PaaS
- D. CASB

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 131

A content filter is set to analyze XML and JSON that users access from the Internet. At which of the following layers is this analysis taking place?

- A. 1
- B. 3
- C. 5
- D. 7
- E. 6

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 132

Ann, a new employee within a department, cannot print to any of the printers in the department or access any of the resources that others can. However, she can access the Internet. The network engineer has confirmed that Ann's account has been set up the same as the others. There are no access lists restricting Ann's access. Which of the following could be the issue for this lack of access?

- A. Duplex/speed mismatch
- B. VLAN mismatch
- C. DNS server issue
- D. DHCP server issue
- E. Spanning tree blocked ports

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 133

A technician is configuring a printer for a client. The technician connects the printer to the network, but is unsure how to determine its switchport. Which of the following should the technician do FIRST to locate the switchport?

- A. Perform a DNS lookup on the server.
- B. Set up an SSH session to the desktop.
- C. Reference the ARP table in the router.
- D. Configure port security on the switch.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 134

A router is set up to utilize RIPv2 to route traffic throughout the network. Which of the following routing metrics is used to determine the path?

- A. Distance
- B. Bandwidth
- C. Speed
- D. Hop count

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 135

While working on a Linux-based OS, a technician experiences an issue accessing some servers and some sites by name. Which of the following command-line tools should the technician use to assist in troubleshooting?

- A. dig
- B. iptables

- C. ifconfig
- D. traceroute

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 136

A network administrator has had difficulty keeping track of IP address assignments on networking devices and clients recently. Which of the following is the BEST technology to aid in this scenario?

- A. DNS
- B. DHCP
- C. IPAM
- D. NTP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 137

A technician is surveying a college's network equipment rooms and connectivity. Which of the following types of documentation does the technician need to perform a detailed site survey? (Choose three.)

- A. IDF/MDF documentation.
- B. Cable run label documentation.
- C. Network configuration documentation.
- D. Performance baseline documentation.
- E. Standard operating procedure documentation.
- F. Change management documentation.
- G. Rack diagram documentation.

Correct Answer: ACG

Section: (none)

Explanation

Explanation/Reference:

QUESTION 138

A technician is connecting a PC to a switchport. At the wiring closet, the technician is unable to identify which cable goes from patch panel A connected to the switch to patch panel B connected to the PC. Which of the following tools should the technician use to resolve the issue?

- A. Cable tester
- B. Multimeter
- C. Tone generator
- D. OTDR

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference: