

N10-007

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Exam A

QUESTION 1

A UTM is deployed on the external edge of the main corporate office. The office connects to the WAN port of the edge router. The edge router at the main office connects to the remote offices using GRE IPSec tunnels. A network administrator notices that a worm that was not detected by the UTM has spread from the remote sites into the corporate network. The UTM currently has traffic rules applied that should block the port used by the worm. Which of the following steps would MOST likely correct this issue?



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- A. Move the UTM onto the LAN side of the network
- B. Enable TLS inspection on the UTM
- C. Enable stateful inspection on the UTM
- D. Configure the UTM to deny encrypted files from being transferred



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

A network technician receives a call from a user in the accounting department stating that Internet connectivity has been lost after receiving a new workstation. No other users in accounting are reporting similar issues. The network technician is able to ping the machine from the accounting department's router, but is not able to ping the machine from the IT network. Which of the following is MOST likely the cause?

- A. Incorrect default gateway
- B. Duplicate IP address
- C. Misconfigured OSPF

D. Improper VLAN assignment

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

A firewall administrator is implementing a rule that directs HTTP traffic to an internal server listening on a non-standard socket. Which of the following types of rules is the administrator implementing?

- A. NAT
- B. PAT
- C. STP
- D. SNAT
- E. ARP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

A technician is installing a new wireless badging system on a hospital network. The requirements of the badging system are for it to have its own SSID and low power levels. The badging system has to cover 99.9% of the hospital. Which of the following is the BEST action to take to meet the system requirements?

- A. Install additional WAPs
- B. Install external antennas
- C. Move the WAPs closer to the more populated area
- D. Change the antenna types

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

A technician attempts to replace a switch with a new one of similar model from the same vendor. When the technician moves the fiber and SFP plug, the switch does not completely boot up. Considering that the config files are the same, which of the following is the MOST likely cause of the failure?

- A. Damaged fiber
- B. Corrupted operating system
- C. VLAN mismatch
- D. Bad port

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 6

A company has hundreds of nodes on a single subnet and has decided to implement VLANs. Which of the following BEST describes the benefit of this approach?

- A. It segments broadcast domains in the network infrastructure
- B. It provides a faster port to all servers
- C. It provides multiple collision domains on one switchport
- D. It provides multiple broadcast domains within a single collision domain

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

A company has completed construction of a new datacenter, and the IT staff is now planning to relocate all server and network equipment from the old site to the new site. Which of the following should the IT staff reference to determine the location of the equipment being moved?

- A. Rack diagrams
- B. Network topology
- C. Standard operating procedures
- D. Wiring documentation

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

Which of the following would allow a device to maintain the same IP address lease based on the physical address of the network card?

- A. MAC address reservation
- B. Static IP address
- C. IP address exclusion
- D. Custom DNS server entry



Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

A technician wants to prevent an unauthorized host from connecting to the network via Ethernet. Which of the following is a Layer 2 access control the technician should implement?

- A. Access control lists
- B. Captive portal
- C. WPA2
- D. Port security

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

A network technician is deploying mobile phones for a company's sales staff. Salespeople frequently travel nationally and internationally to meet with clients, and often have to roam or switch cellular providers. Which of the following standards is the BEST option to fit the requirements?

- A. GSM
- B. TDM
- C. CDMA
- D. PSTN
- E. MIMO

Correct Answer: A

Section: (none)

Explanation



Explanation/Reference:

QUESTION 11

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 12

Which of the following provides the ability to deploy consistent access point configurations from a central location?

- A. Wireless controller
- B. AAA server
- C. WiFi-protected setup
- D. Proxy server
- E. VPN concentrator

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

A network technician is configuring a wireless network at a branch office. Users at this office work with large files and must be able to access their files on the server quickly. Which of the following 802.11 standards provides the MOST bandwidth?

- A. a
- B. ac
- C. g
- D. n

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

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 15

Which of the following WAN technologies is MOST preferred when developing a VoIP system with 23 concurrent channels?

- A. DSL
- B. POTS
- C. T1
- D. DOCSIS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

A junior network technician is setting up a new email server on the company network. Which of the following default ports should the technician ensure is open on the firewall so the new email server can relay email?

- A. 23
- B. 25
- C. 110
- D. 143

Correct Answer: B



Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

Which of the following policies would Joe, a user, have to agree to when he brings in his personal tablet to connect to the company's guest wireless Internet?

- A. NDA
- B. IRP
- C. BYOD
- D. SLA

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 18

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 19

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 20

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?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

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 22

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



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- C. Bridge
- D. Load balancer

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

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 24

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 25

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 26

A technician logs onto a system using Telnet because SSH is unavailable. SSH is enabled on the target device, and access is allowed from all subnets. The technician discovers a critical step was missed. Which of the following would allow SSH to function properly?

- A. Perform file hashing
- B. Generate new keys
- C. Update firmware
- D. Change default credentials

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

An office network consists of one two-port router connected to a 12-port switch. A four-port hub is also connected to the switch. On this particular network, which of the following is the number of collision domains that exist?

- A. 3
- B. 12
- C. 13
- D. 14
- E. 15

Correct Answer: D



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 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 31

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 32

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 33

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 34

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 35

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 36

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 37

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 38

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 39

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?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

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 41

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 42

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 43

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 44

Which of the following is used to classify network data for the purpose of providing QoS?

- A. STP
- B. VLANs
- C. SIP
- D. DSCP

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

A network technician needs to separate a web server listening on port 80 from the internal LAN and secure the server from the public Internet. The web server should be accessible to the public Internet over port 80 but not the private LAN. Currently, the network is segmented with a network-based firewall using the following IP addressing scheme on each interface:

Zone	Interface	IP Address
Public	eth0	10.0.0.1/24
DMZ	eth1	10.0.1.1/24
Private	eth2	10.0.2.1/24

Which of the following ones should the technician use to place the web server and which of the following firewall rules should the technician configure?

- A. Place the web server in the public zone with an inbound rule from eth0 interface to accept traffic over port 80 designated to the web server
- B. Place the web server in the DMZ with an inbound rule from eth0 interface to eth1 to accept traffic over port 80 designated to the web server
- C. Place the web server in the private zone with an inbound rule from eth2 interface to eth1 to accept traffic over port 80 designated to the web server
- D. Place the web server in the DMZ with an inbound rule from eth1 interface to eth0 to accept traffic over port 80 designated to the web server

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

A company has contracted with an outside vendor to perform a service that will provide hardware, software, and procedures in case of a catastrophic failure of the primary datacenter. The Chief Information Officer (CIO) is concerned because this contract does not include a long-term strategy for extended outages. Which of the following should the CIO complete?

- A. Disaster recovery plan
- B. Business continuity plan
- C. Service level agreement
- D. First responder training

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

A typical cell tower will have microwave and cellular antennas. Which of the following network topologies do these represent? (Choose two.)

- A. Point-to-multipoint
- B. Bus
- C. Point-to-point
- D. Mesh
- E. Peer-peer
- F. Ring

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:



QUESTION 48

Users are reporting their network is extremely slow. The technician discovers pings to external host have excessive response times. However, internal pings to printers and other PCs have acceptable response times. Which of the following steps should the technician take NEXT?

- A. Determine if any network equipment was replaced recently
- B. Verify malware has not disabled the users' PC firewalls
- C. Replace users' network cables with known-good network cables
- D. Power cycle the web server

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

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 50

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 51

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 52

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 53

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 54

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 55

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 56

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 57

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 58

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 59

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 60

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 61

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 62

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 63

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 64

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 65

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 66

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 67

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 68

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)

QUESTION 69

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 70

Users are reporting issues with slow connection speeds and a loss of connectivity on the newly installed wireless network. The issues are intermittent but seem to occur most often around midday. Which of the following is the MOST likely cause?

- A. There is interference from small appliances
- B. The signal coverage area is too small
- C. Not enough DHCP addresses have been allotted



<https://vceplus.com> D. The

DNS cache on the users' computers has become corrupt

Correct Answer: C

Section: (none)

QUESTION 71

Which of the following physical security controls is MOST likely to be susceptible to a false positive?

- A. Identification card
- B. Biometric device
- C. Proximity reader
- D. Video camera

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 72

An assistant systems analyst reports the following findings of an investigation of slow Internet connections in a remote office to the senior systems analyst:

Device	CPU Utilization	Memory Utilization	Link Status
Router	5%	43%	Good
Firewall	92%	58%	Good
Switch 1	23%	32%	Good
Switch 2	8%	81%	Good

Which of the following devices is causing the issue?

- A. Router

- B. Firewall
- C. Switch 1
- D. Switch 2

Correct Answer: B

Section: (none)



QUESTION 73

A technician is trying to configure a previously owned WAP. The technician successfully logs into the administrative console and attempts to input the IP address on the WAP. However, the WAP is not accepting the command. Which of the following is causing the problem?

- A. The WAP antenna is damaged
- B. The WAP transmitter light is dim
- C. The terminal emulation software is misconfigured
- D. The LWAPP image is installed on the WAP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 74

A technician has installed a Linux server in the tax office. The server can access most of the resources on the network, but it cannot connect to another server that has a share for backup. The technician learns that the target server is on a different subnet. Which of the following tools should the technician use to ensure the Linux server can reach the backup location?

- A. netstat
- B. traceroute
- C. route
- D. dig
- E. ifconfig

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 75

Which of the following should a technician investigate when using a network baseline to troubleshoot?

- A. Tracing a network wire connectivity issue from the datacenter to a host.
- B. Determining if the server performance is degraded.
- C. Changes that have been made to the network configuration.
- D. Location of networking equipment in a rack.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 76

A technician needs to upgrade a SOHO wireless router's firmware. The technician resets the router to factory settings and installs the new firmware. The technician enters the DHCP information and sets the SSID. Which of the following configurations would provide the MOST protection from advance hackers?

- A. Disable the broadcasting of the SSID.
- B. Enable WPA2 authentication for all hosts.
- C. Use private addressing for the DHCP scope.
- D. Install unidirectional antennas.



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 77

A technician notices clients are receiving a 169.254.x.x IP address following the upgrade of a server. Which of the following ports should the technician check on the local server firewall?

- A. ports 20 and 21
- B. ports 67 and 68
- C. ports 80 and 443
- D. port 123 and 8080

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 78

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 79

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 80

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 81

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 82

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 83

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 84

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 85

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 86

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 87

A technician is utilizing SNMPv3 to monitor network statistics. Which of the following actions would occur immediately of a server's utilization spikes above the prescribed value?

- A. A trap message is sent via UDP to the monitoring workstation.

- B. The SET function pushes an alert to the MIB database.
- C. The object identifier is modified and reported during the next monitoring cycle.
- D. A response message is sent from the agent to the manager.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 88

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 89

The Chief Executive Officer's (CEO's) tablet cannot connect to the wireless network from the corner office. A network technician verified the tablet can connect to the wireless network in other areas of the building. The distance between the office and the 802.11ac WAP is 150ft (46m), and there are a few cubicles in between. Which of the following is the MOST likely cause of the tablet not connecting?

- A. Absorption
- B. Reflection
- C. Distance
- D. Refraction
- E. Attenuation

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 90

A company has two geographically separate locations that need to connect using a VPN. Which of the following devices must be specifically configured to allow VPN traffic into the network?

- A. Firewall
- B. Switch
- C. Router
- D. Modem

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 91

A network technician is repurposing a switch that has been in storage for some time. The device has been wiped to factory defaults. Which of the following should be done FIRST to ensure the device has been hardened before configuration?

- A. Generate new keys.
- B. Disable unused ports.
- C. Check for updated firmware.
- D. Configure the default VLAN.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 92

A technician is setting up a wireless access point in a coffee shop. The shop is not concerned with security but only wants to allow customers to have access. Which of the following configurations should the technician deploy?

- A. Use a pre-shared key.
- B. Set up EAP.
- C. Configure RADIUS.
- D. Configure MAC filtering.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 93

An entire enterprise cannot access a specific website. The network technician knows the website was accessible last week. The technician can also ping the website. Which of the following is the technician MOST likely to find upon investigation?

- A. The firewall is misconfigured.
- B. The network is being hit by a zero-day attack.
- C. The SSL certificate is untrusted.
- D. The SSL certificate has expired.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 94

At which of the following OSI model layers would a router operate?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 95

Which of the following are DNS record types? (Choose three.)

- A. CNAME
- B. NTP
- C. PTR
- D. LDAP
- E. DHCP
- F. TTL
- G. SRVH. SSH

Correct Answer: ACG

Section: (none)

Explanation

Explanation/Reference:



QUESTION 96

Which of the following backup techniques is used to capture all the data that has changed since the last full backup?

- A. Incremental
- B. Replica
- C. Differential
- D. Snapshot

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 97

A technician is observing brownout issues at a smaller office. At least once a week, the edge switch power cycles. Which of the following should the technician do to resolve the issue?

- A. Install a new switch
- B. Install a UPS
- C. Replace the switch uplink cable.
- D. Install a new electrical circuit.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 98

A technician is troubleshooting a workstation's network connectivity and wants to confirm which switchport corresponds to the wall jack the PC is using. Which of the following concepts would BEST help the technician?

- A. Consistent labeling
- B. Change management
- C. Standard work instructions
- D. Inventory management
- E. Network baseline

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 99

A junior network technician is working in the field and needs to connect to the company's remote server, however, doing so will require the junior technician to use the public Internet. Because security is a concern, which of the following is the BEST method to use?

- A. Telnet
- B. SSH
- C. SFTP
- D. VNC

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 100

A home user has purchased a new smart TV to stream online video services. The smart TV is unable to connect to the wireless network after several attempts. After returning from vacation, the home user tries again and can connect the TV to the wireless network. However, the user notices a laptop is no longer able to connect to the network. Which of the following is the MOST likely cause?

- A. The DHCP scope has been exhausted.
- B. The security passcode has been changed.
- C. The SSID is hidden.
- D. The AP configuration was reset.



Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 101

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 102

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 103

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 104

A network technician receives a call from a branch office about a problem with its wireless connectivity. The user states the office is hosting a large meeting that includes some online training with local businesses. The guest users have all brought devices to connect to the guest network at the branch office. All users are connected to a single WAP and are reporting that connections keep dropping and network speeds are unusable. Which of the following is the MOST likely cause of this issue?

- A. DHCP exhaustion
- B. Channel overlapping
- C. Interference
- D. Overcapacity

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 105

A server in a LAN was configured to act as a gateway between all company computers and an external network. Which of the following networking devices offers the ability to increase both performance and security?

- A. Load balancer
- B. IDS
- C. Proxy server
- D. Wireless controller

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 106

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 107**

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 108

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 109

A company has just refreshed the hardware in its datacenter with new 10G Ethernet switches. A technician wishes to set up a new storage area network but must use existing infrastructure. Which of the following storage standards should the technician use?

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



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 110

A network technician is installing a new SOHO branch office that requires the use of a DOCSIS-compatible modem. The modem needs to be connected to the ISP's network at the demarc. Which of the following cable types should be used?

- A. UTP
- B. Multimode
- C. Coaxial

D. Serial

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 111

A network technician recently installed a new server on a network. The technician must ensure the server does not have any unnecessary services running. The IP address of the server is 204.211.38.50. Which of the following commands would allow the technician to make this determination?

- A. nmap
- B. pathping
- C. route
- D. nslookup

Correct Answer: A

Section: (none)

Explanation



Explanation/Reference:

QUESTION 112

A technician is allocating the IP address space needed for a new remote office. This office will contain the engineering staff with six employees and the digital marketing staff with 55 employees. The technician has decided to allocate the 192.168.1.0/24 block to the remote office. The engineering staff has been allocated the 192.168.1.64/29 subnet. Using the LEAST amount of space possible, which of the following would be the last usable IP address in the engineering subnet?

- A. 192.168.1.62
- B. 192.168.1.63
- C. 192.168.1.70
- D. 192.168.1.71

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:**QUESTION 113**

An administrator is troubleshooting a user's intermittent wireless connectivity issue. Other users across the hallway can connect and use the wireless network properly. Upon inspection of the connection details, the administrator finds the following:

SSID	Company-WiFi
Signal	5%
SNR	2

Which of the following is MOST likely the cause of the poor wireless connection?

- A. Channel overlap
- B. Overcapacity
- C. Incorrect antenna type
- D. Latency



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 114

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 115

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 116

A second router was installed on a network to be used as a backup for the primary router that works as a gateway. The infrastructure team does not want to change the IP address of the gateway on the devices. Which of the following network components should be used in this scenario?

- A. Loopback IP
- B. Virtual IP
- C. Reserved IP
- D. Public IP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 117

A critical vulnerability is discovered on a network device. The vendor states it has already patched this vulnerability in its current release. Which of the following actions should an administrator take?

- A. Change the default password
- B. Use a firewall in front of the device.
- C. Update the firmware.
- D. Upgrade the configuration.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 118

A technician has been alerted of incoming HTTP traffic on the LAN segment that should not contain any web servers. The technician has the IP address of the destination host and wants to determine if the socket for HTTP is open. Which of the following should the technician perform?

- A. Baseline assessment
- B. Packet analysis
- C. Port scan
- D. Patch-level assessment

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 119

Which of the following creates a secure remote connection at the OSI network layer?

- A. L2TP
- B. SSL
- C. DTLS

D. IPSec

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 120

A company decides to deploy customer-facing, touch-screen kiosks. The kiosks appear to have several open source service ports that could potentially become compromised. Which of the following is the MOST effective way to protect the kiosks?

- A. Install an IDS to monitor all traffic to and from the kiosks.
- B. Install honeypots on the network to detect and analyze potential kiosk attacks before they occur.
- C. Enable switchport security on the ports to which the kiosks are connected to prevent network-level attacks.
- D. Create a new network segment with ACLs, limiting kiosks' traffic with the internal network.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 121

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 122

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 123

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:

QUESTION 124

Which of the following protocols are classified as connectionless? (Choose two.)

- A. TFTP
- B. FTP
- C. HTTP
- D. SNMP
- E. SSH
- F. IMAP

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 125

Users in a school lab are reporting slow connections to the servers and the Internet. Other users in the school have no issues. The lab has 25 computers and is connected with a single 1Gb Ethernet connection on Cat 5e wiring to an unmanaged switch. There are also three spare Cat 5e cable runs, which are not in use. The school wants to double the connection speed between the lab and the servers without running new cables. Which of the following would be the BEST solution?

- A. Plug in a second spare cable at each end to double the speed.
- B. Replace the switches with ones that utilize port bonding and use the spare cables.
- C. Replace the switches with 10Gb switches and utilize the existing cabling.
- D. Plug in a second cable and set one port to TX and one port to RX.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 126

A technician is downloading an ISO from a vendor's website. To ensure the integrity of the download, which of the following should be verified?

- A. File size
- B. Vendor URL

- C. File hashing
- D. Encryption

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 127

An administrator wants to implement an additional authentication factor to the remote SSH servers. Which of the following accomplishes this goal with the principle of “something you have”?

- A. Certificate
- B. Pattern
- C. Password
- D. Fingerprint

Correct Answer: A

Section: (none)

Explanation



Explanation/Reference:

QUESTION 128

Users on a LAN segment are reporting a loss of connectivity to network services. The client PCs have been assigned with 169.254.X.X IP addresses. Which of the following IP address schemas is being utilized?

- A. Private IP
- B. Static IP
- C. APIPA
- D. Loopback

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 129

A network administrator has created a new VLAN for the server and clients within the accounting department and wants to outline how it integrates with the existing network. Which of the following should the administrator create?

- A. Logical diagram
- B. Physical diagram
- C. Rack diagram
- D. Configuration diagram

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 130

Which of the following would indicate that a circuit speed should be increased?

- A. Low latency
- B. Low bandwidth consumption
- C. High number of SIEM alerts
- D. High packet drops

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 131

A technician has installed an older IP camera as a temporary replacement for a recently failed newer one. The technician notices that when the camera's video stream is off, the ping roundtrip time between the camera and the network DVR is consistently less than 1ms without dropped packets. When the camera video

stream is turned on, the ping roundtrip time increases dramatically, and network communication is slow and inconsistent. Which of the following is MOST likely the issue in this scenario?

- A. VLAN mismatch
- B. Duplex mismatch
- C. Cat 6 RX/TX reversed
- D. Damaged cable

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 132

Which of the following BEST explains the purpose of signature management as a mitigation technique?

- A. Hardening devices
- B. Segmenting the network
- C. Detecting malicious activity
- D. Restricting user credentials



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 133

A network technician installs a web server on the firewall. Which of the following methods should the technician implement to allow access to outside users without giving access to the inside network?

- A. VLAN
- B. DMZ
- C. SNMP

D. NTP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 134

A Chief Information Officer (CIO) tasks the network engineer with protecting the network from outside attacks. Placing which of the following devices on the network perimeter would provide the MOST security for the system?

- A. Firewall
- B. NGFW
- C. Content filter
- D. IDS/IPS

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 135

Greater bandwidth and availability are required between two switches. Each switch has multiple 100Mb Ethernet ports available. Which of the following should a technician implement to help achieve these requirements?

- A. Spanning tree
- B. Clustering
- C. Power management
- D. Port aggregation

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 136

A technician is configuring a new server with an IP address of 10.35.113.47 on the 10.35.112.0 subnet to allow for the maximum number of hosts. When configuring network settings, which of the following is the correct subnet mask?

- A. 10.35.112.0/30
- B. 10.35.112.0/24
- C. 255.255.240.0
- D. 255.255.248.0
- E. 255.255.255.0

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 137

Ann, a customer, recently upgraded her SOHO Internet to gigabit fiber from cable. She was previously getting speeds around 75Mbps down and 25Mbps up. After the upgrade, Ann runs a speed test on her desktop and gets results of 1000Mbps down and 100Mbps up. A technician connects directly to the router and sees the correct 1000Mbps speeds. Which of the following is MOST likely the cause? (Choose two.)

- A. All ports should be configured for full duplex.
- B. There is a 10/100 switch on the network.
- C. The connections are using Cat 5 cable.
- D. The connections are using Cat 6 cable.
- E. There is a transceiver mismatch at the fiber termination point.
- F. Signal attenuation on the new fiber has reached the upper limits.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 138

Which of the following protocols is associated with a three-way handshake?

- A. UDP
- B. ICMP
- C. GRE
- D. TCP

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 139

A technician wants to physically connect two office buildings' networks. The office buildings are located 600ft (183m) apart. Which of the following cable types is the BEST choice?

- A. Cat 5e
- B. Cat 6a
- C. Multimode
- D. Coaxial



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 140

A network engineer at a multinational company is asked to purchase mobile phones for senior executives who often travel internationally. The executives want their phones to work with wireless carriers in multiple countries when they travel. Which of the following cellular standards should these new phones support?

- A. GSM
- B. TDM
- C. CDMA
- D. PSTN

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 141

A network technician wants to address PCs on a subnet with IPv6 in addition to IPv4. The subnet currently uses a DHCP server that only supports IPv4. Which of the following should the technician use to assign IPv6 addresses automatically without DHCP?

- A. APIPA
- B. MAC reservations
- C. EUI-64
- D. IPv4 to IPv6 tunnel

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 142

A network technician receives a request for a disaster recovery solution. Management has requested no downtime in the event of a disaster. Which of the following disaster recovery solutions is the appropriate choice?

- A. Hot site
- B. Business continuity
- C. File backups
- D. Virtual snapshot

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 143

An AP is configured to authenticate clients by using their Active Directory username and password. The AP uses UDP to connect to the authentication service, which then queries Active Directory. Which of the following authentication services is being used by the AP in this scenario?

- A. RADIUS
- B. TACACS+
- C. LDAP
- D. Kerberos

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 144

Which of the following should be configured on the network to achieve performance for the FCoE storage traffic?

- A. PoE
- B. DHCP snooping
- C. Jumbo frames
- D. Virtual IP



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 145

A network administrator wants to narrow the scope of a subnet to two usable IP addresses within a class C network. Which of the following is the correct CIDR notation?

- A. 10.10.50.0/30
- B. 172.16.20.0/30
- C. 192.1.0.124/30

- D. 192.168.0.192/24
- E. 192.170.10.0/24

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 146

A network technician notices that most of the nodes in the 10.10.74.0/23 address space return either 1 or 2 node hop after running a `tracert`; however, some of the new servers are showing a hop count larger than 10. Which of the following is the MOST likely reason for this?

- A. New servers are being provisioned in the cloud.
- B. Those servers have host-based firewalls.
- C. Some of the servers are configured to use different gateways.
- D. Part of the subnet is configured to use different VLANs.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 147

A network administrator is purchasing a mobile phone for a manager who is traveling internationally. The phone needs to be able to make and receive calls in multiple countries outside of North America. Which of the following cellular technologies should the administrator look for in the phone?

- A. CDMA
- B. GSM
- C. TDMA
- D. CSMA

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 148

A network administrator is concerned about clients being able to access the local Internet while connected to the corporate VPN. Which of the following should be disabled on the client to prevent this?

- A. TLS
- B. Remote file access
- C. Split tunneling
- D. HTTPS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 149

A network technician travels to a remote office to set up a new SOHO for the company. Wireless networking should be used at the remote office. The network technician sets up all the related wireless network equipment, and the last step is to connect the users' devices to the company network. To complete this step, which of the following should be used to secure the remote network location?

- A. Host-based firewalls
- B. WPA2/WPA
- C. Open access
- D. Port filtering

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 150

The length of an IPv6 address is:

- A. 32 bits
- B. 64 bits
- C. 128 bits



<https://vceplus.com>

- D. 256 bits

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 151

A network technician is troubleshooting a problem with a user's client-to-site VPN connection. The user is unable to establish a connection to the server, but the error message that appears on screen does not contain useful information. Which of the following should the technician do NEXT to troubleshoot the issue?

- A. Reconfigure the user's VPN connection in the router to fix profile corruption.
- B. Inform the user that provisioning sometimes fails and the connection needs to be attempted again.
- C. Review the logs in the VPN client to check for any informational messages.
- D. Verify the system has the latest OS patches installed.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 152

A network technician installed a new host on the network. The host is not connecting to the company's cloud servers. The technician attempts to ping a server using the IP address with no success. Checking the IP address using ipconfig displays:

```
IP address      10.10.23.231
Subnet mask     255.255.192.0
Default gateway 10.10.20.1
DNS1            11.11.11.11
DNS2            11.11.11.12
```

Which of the following should the technician perform NEXT to determine where the issue is located?

- A. Modify the default gateway address and ping the server to test connectivity.
- B. Change the DNS servers to be on the same subnet as the host.
- C. Modify the router's ACL to allow port 80 to exit the network.
- D. Perform a `tracert` command to locate where the packet is dropped.

Correct Answer: D

Section: (none)

Explanation



Explanation/Reference:

QUESTION 153

A network technician is performing a firmware upgrade on a switch. The firmware needs to be downloaded to the device. Which of the following methods should the technician use to retrieve the updated firmware?

- A. RDP
- B. SSH
- C. TFTP
- D. Telnet

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 154

A network technician is assisting a user who is experiencing connectivity problems with the VPN. The technician has confirmed the VPN is functioning and other users at the site cannot access the Internet. Which of the following commands would MOST likely be used to further troubleshoot?

- A. `tracert`
- B. `netstat`
- C. `arp`
- D. `dig`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 155

Which of the following MUST be installed on an employee's computer if the remote access VPN implements an SSL VPN with PKI authentication?

- A. Shared secret
- B. HTTPS server
- C. Soft token
- D. Private certificate

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 156

A home user is unable to get to the Internet from a workstation that is connected to a wireless network. When reviewing the results of the `ipconfig` command, the user wants to verify the default gateway is correct. Which of the following devices should be the gateway?

- A. Cable modem

- B. SOHO router
- C. DNS server
- D. Layer 2 switch

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 157

A network technician needs to configure a device with an embedded OS so it can be connected to a wireless handheld scanner. Which of the following technologies should be configured on the OS to create the wireless connection?

- A. Partial mesh
- B. Ad hoc
- C. Ring
- D. Bus

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 158

An NGFW alerts that a web server in the DMZ is sending suspicious traffic. A network administrator finds that port 25 is open, and the traffic is originating from this port. The only purpose of this server is to deliver website traffic. Which of the following should the network administrator recommend to the systems administrator?

- A. Disable Telnet service on the server.
- B. Disable DHCP service on the server.
- C. Disable the SMTP service on the server
- D. Disable FTP service on the server.

Correct Answer: C



Section: (none)

Explanation

Explanation/Reference:

QUESTION 159

According to the troubleshooting methodology, which of the following steps will help a technician gather information about a network problem? (Choose two.)

- A. Test solutions.
- B. Duplicate the problem
- C. Establish a theory of probable cause
- D. Question users
- E. Implement preventive measures.
- F. Document findings

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:



QUESTION 160

A user reports network resources can no longer be accessed. The PC reports a link but will only accept static IP addresses. The technician pings other devices on the subnet, but the PC displays the message `Destination unreachable`. Which of the following are MOST likely the causes of this issue? (Choose two.)

- A. Damaged cables
- B. Crosstalk
- C. Bent pins
- D. TX/RX reverse
- E. VLAN mismatch
- F. Duplex mismatch

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 161

Which of the following technologies is used when multiple Ethernet adapters work to increase speed and fault tolerance?

- A. Clustering
- B. Load balancing
- C. Redundant circuits
- D. NIC teaming

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 162

A network technician has finished configuring a new DHCP for a network. To ensure proper functionality, which of the following ports should be allowed on the server's local firewall? (Choose two.)

- A. 20
- B. 21
- C. 53
- D. 67
- E. 68
- F. 389

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 163

A network technician is reviewing switch ACLs to determine if they are causing communication issues with one PC. The PC's IP address is 192.168.12.66. Which of the following is the network range found in the ACL that could have affected this PC?

- A. 192.168.12.97 255.255.255.192
- B. 192.168.12.97 255.255.255.224
- C. 192.168.12.97 255.255.255.240
- D. 192.168.12.97 255.255.255.248

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 164

A new technician is connecting an access switch to a distribution switch uplink in a datacenter using fiber cables. Which of the following are transceivers the technician should use to perform this job? (Choose two.)

- A. RJ45
- B. DB-9
- C. LC D. SFP
- E. GBIC
- F. SC

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 165

A technician is installing two new servers that collect logs. After installing the servers, the technician reviews the logical output from various commands. Which of the following should be included in a logical network diagram?

- A. Rack location
- B. Room number

- C. Media type
- D. Hostname

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 166

A technician is sent to troubleshoot a faulty network connection. The technician tests the cable, and data passes through successfully. No changes were made in the environment, however, when a network device is connected to the switch using the cable, the switchport will not light up. Which of the following should the technician attempt NEXT?

- A. Modify the speed and duplex
- B. Plug in to another port
- C. Replace the NIC
- D. Change the switch

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 167

A technician has been assigned to capture packets on a specific switchport. Which of the following switch features MUST be used to accomplish this?

- A. Spanning tree
- B. Trunking
- C. Port aggregation
- D. Port mirroring

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 168

Which of the following operate only within the UDP protocol?

- A. Frames
- B. Datagrams
- C. Segments
- D. Packets

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 169

An employee reports an error when visiting a website using SSL, and a message is displayed warning of an invalid certificate. Which of the following could be occurring?

- A. Phishing
- B. DDoS
- C. Evil twin
- D. MITM
- E. OCSP stapling

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 170

A network technician is troubleshooting a connectivity issue and determines the cause is related to the VLAN assignment on one of the access switches in the network. After resolving the issue, the network technician decides to update the documentation to refer to the correct VLAN. Which of the following should the technician update?

- A. Physical diagram
- B. Logical diagram
- C. IDF documentation
- D. Change management documentation
- E. Incident réponse plan

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 171

A technician wants to configure a SOHO network to use a specific public DNS server. Which of the following network components should the technician configure to point all clients on a network to a new DNS server?

- A. Router
- B. Switch
- C. Load balancer
- D. Proxy server



Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 172

A network engineer for a manufacturing company is implementing a wireless network that provides reliable coverage throughout the facility. There are several large, electric, motorized machines installed on the shop floor for automating the manufacturing process. These machines are known to be significant sources of RF interference. Which of the following frequencies should the wireless network use to MINIMIZE this interference?

- A. 2.4 GHz
- B. 56MHz
- C. 5GHz

D. 900MHz

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 173

Which of the following is created on a 48-port switch with five active VLANs?

- A. 48 networks, five segments
- B. 48 collision domains, five broadcast domains
- C. 240 private networks
- D. 240 usable IP addresses

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 174

Which of the following technologies is used to attach multiple guest operating systems to a single physical network port?

- A. Virtual switch
- B. FCoEC. VPC
- D. vSAN
- E. Fibre Channel

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 175

A network technician is installing a new network switch in the MDF. The technician is using fiber to connect the switch back to the core. Which of the following transceiver types should the technician use?

- A. MT-RJ
- B. BNC
- C. GBIC
- D. F-type

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 176

A network technician notices a router that repeatedly reboots. When contacting technical support, the technician discovers this is a known problem in which an attacker can craft packets and send them to the router through an obsolete protocol port, causing the router to reboot. Which of the following did the network technician fail to do? (Choose two.)

- A. Generate new crypto keys.
- B. Keep patches updated.
- C. Disable unnecessary services.
- D. Shut down unused interfaces.
- E. Avoid using common passwords.
- F. Implement file hashing.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 177

A network technician is configuring network addresses and port numbers for a router ACL to block a peer-to-peer application. Which of the following is the HIGHEST layer of the OSI model at which this router ACL operates?

- A. Transport
- B. Network
- C. Session
- D. Application

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 178

A technician is troubleshooting a server in the finance office that hosts an internal accounting program. The ticketing desk has received several calls from users reporting that access to the accounting program is degraded, and they are experiencing severe delays, sometimes timing out entirely. The problem has been isolated to the server. Which of the following tools should the technician use on the server to narrow down the issue?

- A. nslookup
- B. iptables
- C. pathping
- D. netstat



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 179

A wireless client is having issues staying connected to the wireless network even though the client is less than 20ft (6m) from the access point. Which of the following is MOST likely the cause?

- A. Distance limitations
- B. Latency
- C. Security type mismatch

D. Absorption

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 180

Which of the following is a network device that is responsible for separating collision domains?

- A. Switch
- B. Router
- C. Hub
- D. Modem

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 181

Which of the following network topologies is primarily used to connect servers to large network disk arrays?

- A. SAN
- B. MAN
- C. CAN
- D. PAN
- E. LAN

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 182

A network technician is assisting a user who is having problems accessing a particular website. Other users are reporting that the website is accessible outside of the office. The technician suspects the problem is with the company's firewall. Which of the following should the technician use to troubleshoot?

- A. WiFi analyzer
- B. Bandwidth speed tester
- C. Dig
- D. Packet sniffer

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 183

A network extension needs to be run to a location 500ft (152m) from the nearest switch. Which of the following solutions would work BEST? (Choose two.)

- A. Cat 6 with a repeater placed in the middle of the run
- B. Cat 7
- C. Crossover cable
- D. Fiber-optic cabling
- E. Cat 7 with a patch panel placed in the middle of the run

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 184

A network administrator wants to connect to a remote device via SSH. Which of the following layers of the OSI model is the protocol using?

- A. 3
- B. 4

- C. 5
- D. 6
- E. 7

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 185

A small company has decided to use a single virtual appliance to filter spam as well as reverse proxy and filter traffic to its internal web server. Which of the following has the company MOST likely deployed?

- A. IPS
- B. Firewall
- C. SIEM
- D. UTM
- E. Content filter



Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 186

Which of the following devices would allow a network administrator to block an application at Layer 7 on the network?

- A. Firewall
- B. NGFW
- C. Router
- D. Spam filter

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 187

A client requests a new dynamic address and receives a response from two DHCP servers. Which of the following addressing information would the client use?

- A. The IP addressing information received last
- B. The IP addressing information from the highest server MAC address
- C. The IP addressing information from the highest server IP address
- D. The IP addressing information received first

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 188

Ann, a network technician, is told to disable unused ports on a switch. Another technician tells her the policy is to move those ports into a non-routed VLAN and leave them enabled. Which of the following documents should Ann use to ensure she is employing the correct method?

- A. Inventory management
- B. Wiring and port location
- C. Configuration baseline
- D. Standard operating procedure

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 189

A network technician does not have access to the GUI of a server and needs to adjust some network properties. Given the command:

```
route add 0.0.0.0 mask 0.0.0.0 192.169.1.222 metric 1
```

Which of the following is the technician attempting to alter?

- A. The technician is clearing the route table.
- B. The technician is adding a static IP address.
- C. The technician is clearing the subnet mask setting.
- D. The technician is setting the default gateway.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 190

A network technician is installing and configuring a new router for the sales department. Once the task is complete, which of the following needs to be done to record the change the technician is making to the company network?

- A. Change management
- B. Network diagrams
- C. Inventory report
- D. Labeling report

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 191

A network technician receives reports indicating some users are unable to gain access to any network resources. During troubleshooting, the technician discovers the workstations have an IP address of 169.254.x.x. Which of the following is the MOST likely cause?

- A. Expired IP address

- B. Exhausted dynamic scope
- C. Misconfigured VLSM
- D. Rogue DHCP server

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 192

A customer has submitted a request for a new wireless connection in the main office so visitors can reach the Internet to check their email. The customer is concerned about security and does not want visitors to be able to access the internal finance server. Which of the following BEST describes the correct configuration?

- A. The LAN and WLAN should be configured in the same zone with dynamic DENY ALL rules.
- B. The LAN and WLAN should be configured in the DMZ so traffic is denied automatically.
- C. The LAN and WLAN should be marked as trusted during work hours and untrusted during off hours.
- D. The LAN and WLAN should be configured in separate zones with a firewall in between.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 193

An employee, who is using a laptop connected to the wireless network, is able to connect to the Internet but not to internal company resources. A systems administrator reviews the following information from the laptop:

```
IP: 192.168.1.100
MASK: 255.255.255.0
ROUTER: 192.168.1.1
```

The administrator was expecting to see a network address within 10.100.0.0/23, which is consistent with the company's wireless network. The network administrator verifies the company's wireless network is configured and working properly. Which of the following is the MOST likely cause of this issue?

- A. Interference
- B. Security type mismatch
- C. Wrong SSID
- D. Channel overlap

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 194

A network technician is assisting a user who has relocated to a newly constructed office space. The user has no network connectivity. A cable tester was used on the port and is reporting that the pairs are open. Which of the following should be used to remedy this problem?

- A. Loopback adapter
- B. Tone generator
- C. Multimeter
- D. Punchdown tool

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 195

A technician needs to add ten additional Ethernet ports to a small office network. A new basic function switch is added. Hosts connected to the new switch are unable to see any computers on the network other than those connected to the new switch. Which of the following should the technician perform to ensure the hosts on the new switch can communicate with the existing network?

- A. Replace the new switch with a hub to ensure Layer 1 connectivity on the new network segment.
- B. Move the straight-through Ethernet cable connecting the switches to the first port on both switches.

- C. Connect the switches with a cable that has a TIA/EIA 586A wired connector end and a TIA/EIA 586B wired end.
- D. Add a second cable connecting the switches for redundancy and disabling STP on both switches.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 196

Before upgrading the firmware on several routers, a technician must verify the firmware file received is the same one the vendor provided. Which of the following should the technician use?

- A. 3DES encryption
- B. SSL certificate
- C. Digital signatures
- D. MD5 hash

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 197

Which of the following is the MOST secure type of remote administration?

- A. SSH over IPsec client-to-site VPN
- B. RDP over SSLv2 HTTPS terminal services gateway
- C. HTTP over WPA2-TKIP WiFi
- D. Telnet over PSTN

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 198

A wireless access point that was working in a large warehouse last week is now offline. The technician observes there is no power to the device. The technician verifies PoE is working on the switchport, and then confirms the wireless access point is still not powering up. Which of the following is the MOST likely issue?

- A. Attenuation
- B. Incorrect pin-out
- C. Damaged cable
- D. Switch misconfiguration

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 199

A user believes a work email account has been compromised. A technician discovers that an email seeming to be from the user's bank shares the same origin IP address as the last login to the email account. Which of the following types of attack is described in this scenario?

- A. Spam
- B. Ransomware
- C. Man-in-the-middle
- D. Phishing

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 200

Which of the following protocols is used by Active Directory for authentication?

- A. SSH
- B. SFTP
- C. LDAP

D. TLS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 201

A vulnerability that would allow an unauthenticated, remote attacker to originate a DoS attack was found in a DHCP client implementation of a switch. Which of the following would BEST resolve the issue?

- A. Verify the default passwords have been changed.
- B. Upgrade to the latest firmware
- C. Generate new SSH keys.
- D. Review and modify the firewall rules.

Correct Answer: B

Section: (none)

Explanation



Explanation/Reference:

QUESTION 202

A network technician is setting up the wireless network for a company's new branch office. After doing a site survey, the technician discovers there is a lot of interference from 2.4GHz devices at the location on channel 11. Which of the following would be the BEST channel on which to set up the WAPs?

- A. Channel 6
- B. Channel 7
- C. Channel 9
- D. Channel 10

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 203

A network technician has deployed a new 802.11ac network and discovers some of the legacy POS equipment only supports WPA and 802.11a. Which of the following is the MOST secure method of connecting all devices while avoiding a performance impact to modern wireless devices?

- A. Configure the APs to use LEAP authentication to support WPA rather than WPA2 for full compatibility.
- B. Connect modern devices under the 5GHz band while dedicating the 2.4GHz band to legacy devices.
- C. Connect the legacy devices with a PSK while the modern devices should use the more secure EAP.
- D. Create two SSIDs, one to support CCMP-AES encryption and one with TKIP-RC4 encryption.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 204

A technician has been asked to diagnose problems with DHCP addressing on a VLAN. The DHCP server responds to pings from the technician's machine. Which of the following should the technician use to help diagnose the problem?

- A. Packet sniffer
- B. netstat
- C. nslookup
- D. Spectrum analyzer

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 205

A technician is investigating an issue related to a single host that is unable to access the Internet. The technician records the following information: Host IP 169.254.1.10. The network IP address range on the DHCP server is 10.10.5.2-10.10.5.250 with a default gateway 10.10.5.1 and a DNS of 8.8.8.8. Which of the following should the technician perform to troubleshoot the issue?

- A. Change the IP scope on the DHCP server to a public IP address range.
- B. Perform a `tracert` command to identify the router that is not functioning.
- C. Verify the host has physical connectivity and is on the correct VLAN.
- D. Configure the DNS address in the DHCP scope to a 10.10.5.0/24 address.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 206

A network administrator wants to reduce the amount of time each user takes to log in to different systems in the network. Which of the following would reduce the time spent authenticating?

- A. Kerberos
- B. RADIUS
- C. Certificate
- D. SSO
- E. MFAF. NAC



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 207

Which of the following is an object held within an MIB?

- A. OUI
- B. OTDR
- C. OID
- D. SNMP host
- E. SNMP agent

F. SNMP trap

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 208

A network administrator is configuring the 172.16.40.0/22 network for a new building. Which of the following is the number of hosts that will be supported on this network?

- A. 510
- B. 512
- C. 1022
- D. 1024
- E. 2046
- F. 2048

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 209

A department is reporting network issues. Users can ping each other and the switch, but not the default gateway. When looking at a wiring diagram and a physical blueprint, a technician notices the 1000BaseLX SFP connects to a distribution switch via a cable that runs behind a large industrial refrigerator. The technician also notices both switches have been worked on recently. Which of the following is MOST likely the issue?

- A. EMI
- B. TX/RX reverse
- C. Open/short
- D. Attenuation

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 210

A shop owner wants to ensure that only a specified group of devices can access the wireless network. Which of the following methodologies will BEST ensure unauthorized devices cannot consume the shop owner's limited Internet bandwidth?

- A. Disable the SSID broadcast.
- B. Implement WEP authentication.
- C. Change the WiFi password.
- D. Activate MAC address filtering.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 211

A network administrator wants to ensure all traffic is inspected and abides by the AUP, and that malicious traffic is stopped. Which of the following features should be enabled on a firewall to meet this requirement?

- A. Intrusion detection
- B. Proxy service
- C. Dynamic DNS
- D. Content filtering

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 212

A network technician has purchased a 10GBase-T switch and wishes to connect it to 30 computers with 10GB network cards. The computers are 225ft (69m) away, and all need to establish a 10 Gbps connection to meet business requirements. To minimize costs while still meeting these requirements, which of the following cable types should the technician choose?

- A. Cat 5e
- B. Cat 6
- C. Cat 6a
- D. Cat 7

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 213

A technician is configuring a new email server and needs to modify DNS records. Which of the following records should the technician update to ensure email functions as expected?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 214

A network administrator is adding a new WAN circuit from the ISP to a new building. In which of the following locations would the network administrator find the utility entry point?

- A. DMZ
- B. Data tier

- C. IDF
- D. Demarc

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 215

A technician discovered a company computer had a virus but was unable to remove it. The technician decided to erase the hard drive to eliminate the threat. Which of the following policies did the technician violate?

- A. Data loss prevention
- B. Incident response
- C. Asset disposal
- D. Acceptable use

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 216

A company hires another firm to test the integrity of its information security controls. This is an example of:

- A. role separation
- B. device hardening
- C. risk assessment
- D. penetration testing

Correct Answer: D

Section: (none)

Explanation



Explanation/Reference:

QUESTION 217

A network technician is troubleshooting an issue routing TCP packets to an email server. At which of the following OSI layers is the issue occurring?

- A. Layer 1 – Physical
- B. Layer 3 – Network
- C. Layer 4 – Transport
- D. Layer 7 – Application

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 218

A network technician works in a large environment with several thousand users. Due to the needs of the organization, the network manager has asked the technician to design a solution that accommodates the data needs of all the users, while keeping all data on site. Which of the following solutions should the technician implement?

- A. SaaS
- B. SAN
- C. NAS
- D. IaaS

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 219

A Chief Information Security Officer (CISO) has decided to implement a secure and user-friendly way to connect to the corporate wireless network. Each workstation will be authenticated individually using a unique certificate that will be deployed to the workstation by the organization's certificate authority. Which of the following authentication methods would meet this requirement?

- A. PEAP
- B. WP2-PSK
- C. Captive portal
- D. EAP-TLS

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 220

A bookstore uses a Faraday cage to comply with credit card regulations. Customers report that their cellular phones have no signal when they are in the bookstore. Which of the following is the MOST likely cause?

- A. The Faraday cage is creating interference within the bookstore.
- B. The Faraday cage prevents access by redirecting signals.
- C. The Faraday cage is creating latency on the cellular network.
- D. The Faraday cage is creating attenuation of the cellular network.



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 221

An administrator is redesigning a company's network and wants to reduce the amount of hardware needed. Currently, all VLAN routing goes out a single switch interface to a router.

Which of the following would reduce the number of devices in this configuration?

- A. Bridge
- B. Multilayer switch
- C. Switch
- D. Next-generation firewall

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 222

A network technician needs to distribute an updated OS for all network switches at company locations throughout the world. The technician wants to ensure file integrity since several locations do not have high-quality connectivity to the Internet.

Which of the following methods should be used to distribute the images while ensuring integrity?

- A. Use a TFTP server and UDP protocol.
- B. Use an FTP server and provide the file hash.
- C. Use an HTTP server to share the file.
- D. Use a modem and dial-up connection.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 223

A company has decided to allow certain users to work remotely by opening up a VPN connection through the firewall. The security policy has been updated to allow

VPN connections only from certain users and to specific areas on the network. Along with configuring the correct policies on the firewall, which of the following also needs to be configured on users' mobile devices to allow these VPN connections?

- A. VNC application
- B. Kerberos
- C. Geotagging application
- D. Credentials

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 224

Joe, a user, is having issues when trying to access certain web pages. Upon navigating to a web page, it seems like it connects, but then presents the following message:

The security certificate presented by this website was not trusted by a trusted certificate authority.

Joe has cleared his cache and cookies, rebooted his machine, and attempted to browse to the website from a coworker's desktop, but it still presented with this error.

Which of the following is the MOST likely cause of this error?

- A. The web server is missing an intermediate certificate.
- B. The website is missing an HTTPS certificate.
- C. TLS is not enabled in the browser.
- D. The SSL certificate has expired.



Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 225

A network support specialist is setting up wireless networks for several small companies that are leasing adjacent spaces in an office building. The network support specialist has already configured an access point for each office with WPA2-AES encryption and minimized any overlap of the wireless channels. Several of the companies have expressed concerns about performance and security issues due to the high volume of wireless networks being installed in close proximity.

Which of the following actions will BEST mitigate the companies' concerns?

- A. Reduce the TX power on each access point.
- B. Enable MAC address filtering on each access point.

- C. Disable the SSID broadcast on each access point.
- D. Enable AP isolation on each access point.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 226

A network technician receives a trouble ticket and speaks to the user who is experiencing the issues with the application. Which of the following should the technician perform NEXT?

- A. Gather information.
- B. Determine the symptoms.
- C. Establish a plan of action.
- D. Document the findings

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 227

A company wants to implement a wireless infrastructure on its campus to meet the needs of its BYOD initiative. The company has users with legacy devices and wants to accommodate them while delivering speed to other users who have modern systems.

Which of the following standards BEST fits these requirements?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 228

Joe, a technician, is attempting to resolve an issue with an off-site router remotely. Joe needs to reset the WAN connection settings and wants to ensure he will have access to the router at all times to monitor the changes.

Which of the following solutions would BEST meet this goal?

- A. Use a secure SSH connection over the WAN link.
- B. Telnet into the router over the company VPN.
- C. Implement a modem on the AUX port.
- D. Configure a DSL router to the console port.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 229

To achieve a more efficient and secure work environment, a company needs a way to control what is being accessed on the Internet using corporate resources. Which of the following devices should be used to accomplish this task? (Choose two.)

- A. Proxy server
- B. IDS
- C. Load balancer
- D. Content filter
- E. VPN concentrator
- F. IPS

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 230

The network support team is responsible for managing connections in a large, multipurpose venue where maintaining physical security is difficult. Implementing which of the following standards would BEST help to prevent unauthorized connections to the wired network?

- A. 802.1X
- B. 802.1q
- C. 802.3at
- D. 802.3af

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 231

Two buildings used to be connected by a wireless bridge, but they are upgrading to fiber. Which of the following new devices would be required at the demarcation points?

- A. Wireless access point
- B. Router
- C. Media converter
- D. Firewall

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 232

A company is expanding and building a new remote branch office. Marketing will need 78 IP addresses, finance will need 150 IP addresses, legal will need 39 IP addresses, and R&D will need 12 IP addresses. The network administrator gives the technician a network of 172.16.48.0/23 and wants the technician to use VLSM for the design. Which of the following are possible solutions? (Choose three.)

- A. The marketing department should receive a /25 network.
- B. The R&D department should have 172.16.49.207 as a broadcast address.
- C. The R&D department should receive a /27 network.
- D. The finance department should have 172.16.49.127 as a broadcast address.
- E. The marketing department should have usable IPs ranging from 172.16.49.129 to 172.16.49.190.
- F. The legal department should have a first usable IP address of 172.16.49.190
- G. The legal department should have usable IPs ranging from 172.16.49.129 to 172.16.49.190.
- H. The R&D department should have a last usable IP address of 172.16.49.190.

Correct Answer: ABG

Section: (none)

Explanation

Explanation/Reference:

QUESTION 233

A network technician is setting up a WiFi network in a multi-tenant building. When trying to determine the best channel, which of the following is the BEST tool to use?

- A. Protocol analyzer
- B. Tone generator
- C. Spectrum analyzer
- D. Multimeter

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 234

Due to regulatory requirements, a college bookstore prohibits customers from accessing the wireless network in the building. Which of the following would be the BEST method to prevent customers from accessing the wireless network while in the bookstore?

- A. Use MAC filtering for authorization to the wireless network.
- B. Require PEAP for authentication to the wireless network.
- C. Implement a Faraday cage within the bookstore premises.

D. Require a pre-shared key for authentication to the wireless network.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 235

Which of the following network topologies typically has all devices on a network directly connected to every other network device?

- A. Mesh
- B. Star
- C. Ad hoc
- D. Ring

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 236

A technician wants to set an IP address to a specific MAC address on a host machine. Which of the following commands should the technician use?

- A. `ipconfig`
- B. `nslookup`
- C. `arp`



<https://vceplus.com>

D. dig

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 237

Which of the following policies would be the MOST useful for defining the proper procedures when an employee is terminated abruptly?

- A. Offboarding
- B. Remote access
- C. AUP
- D. Incident response
- E. DLP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 238

Management is concerned there is excessive traffic on the network. A network technician wants to run a quick port scan to see any systems that have open ports. Which of the following tools should be used to do this?

- A. tcpdump
- B. dig
- C. nmap



D. netstat

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 239

After deployment of a second network link to load balance the network traffic, the quality of voice calls degrades. The network administrator discovers the voice packets are arriving at uneven intervals that cannot be handled by the voice application buffer. Which of the following actions will improve the quality of the voice calls?

- A. Control the attenuation of the non-voice traffic across the network links
- B. Control the latency of traffic across the network links
- C. Control the EMI of the multimedia traffic across the network links
- D. Control the jitter of the affected traffic across the network links

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 240

Which of the following can a network administrator use to access a network switch using standard AAA configurations?

- A. TACACS+
- B. Single sign-on
- C. LDAP
- D. Local authentication

Section: (none)

Explanation

Explanation/Reference:

Correct Answer: A

QUESTION 241

A network technician is reading a network diagram and looking for the edge router. Which of the following is MOST likely the symbol used for the router?

- A. A circle with four outward arrows
- B. A rectangle with two horizontal arrows
- C. A square with two circular arrows
- D. A triangle with three outward arrows

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 242

Which of the following would a network technician MOST likely connect to power wireless access points in drop ceilings?

- A. Powerline extender
- B. Ethernet-over-power adapter
- C. Power-over-Ethernet switch
- D. Power distribution unit
- E. Ethernet power controller

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 243

A network technician needs to monitor the traffic going to a mission-critical server in the datacenter. Which of the following is the BEST method to perform this?

- A. Use port mirroring
- B. Install an inline tap

- C. Periodically view the server logs
- D. Configure port aggregation

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 244

A SAN serves out storage to a company's virtual environment and provides low-level disk access. The company wants to use its existing IP network and equipment to access the virtual disks. Which of the following network connection types would BEST accomplish this task?

- A. InfiniBand
- B. iSCSI
- C. Fibre Channel
- D. CIFS

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 245

When using a network monitoring system, a network technician notices that a switch returns many object identifiers that do not have descriptions. Which of the following should be imported into the monitoring system to describe these object identifiers?

- A. SNMPv3
- B. SIEM
- C. MIB
- D. SYSLOG

Section: (none)

Explanation

Explanation/Reference:



Correct Answer: C

QUESTION 246

A network administrator is responding to a help desk ticket, which states an unknown wireless access point is broadcasting in a specific area. Upon investigation, the administrator finds that a user brought a wireless access point from home and plugged it into the corporate network. This resulted in an attacker using the unsecured wireless LAN to gain access to the network. Which of the following should the network administrator have done to BEST prevent this problem?

- A. Changed the default credentials on the network switches
- B. Installed a Layer 7 firewall
- C. Implemented port security
- D. Disabled unnecessary services on the network switches

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 247

Which of the following should be performed on a regular basis to prevent unauthorized access to a company network? (Choose two.)

- A. Packet analysis
- B. Reviewing baselines
- C. Vulnerability scanning
- D. Patch management
- E. Log archiving

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 248

A network technician receives a report that the company's intranet web server is not responding. The technician verifies successful connectivity to the server via the `ping` and `tracert` commands. The technician also verifies the routers and switches are online and operational, and then runs Telnet to port 80 and receives a response. Which of the following troubleshooting steps should the technician perform NEXT?

- A. Establish a plan to reset the company router.
- B. Escalate the issue to the server administrator.
- C. Duplicate the issue and continue testing.
- D. Report that an issue was not identified.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 249

A network administrator is reviewing the following output from a switch:

IP Address	MAC Address
10.10.20.1	07:b9:56:14:ab:17
10.10.20.2	aa:aa:aa:aa:aa:aa
10.10.20.3	bb:bb:bb:bb:bb:bb
10.10.20.4	07:b9:56:22:ae:01
10.10.20.5	cc:cc:cc:cc:cc:cc



Which of the following attacks has occurred on the switch?

- A. DNS poisoning
- B. ARP poisoning
- C. VLAN hopping
- D. MAC address spoofing

Section: (none)

Explanation

Explanation/Reference:

Correct Answer: D

QUESTION 250

A user does not have access to network services but has Internet access. The technician notices the computer has an IP address of 192.168.1.144 when the network is 10.10.10.0. Which of the following is MOST likely the issue?

- A. Rogue DHCP server
- B. Duplicate IP addresses
- C. Incorrect gateway
- D. Server permission changes

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 251

A technician is trying to identify the cause of an issue several wireless users are experiencing at an office. The office is in a square-shaped building, with four 802.11b WAPs with omnidirectional antennas located in the four corners of the building. Users near the center of the building report sporadic issues connecting to resources. The technician checks the signal strength in the middle of the building and determines it is adequate. Which of the following is causing the reported issue?

- A. The antenna types are incorrect, and unidirectional should be used.
- B. MAC filtering has not been updated.
- C. There is channel overlap of the access points.
- D. The power levels are set too low on the WAPs.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 252

Company policy dictates that full backups are taken every Sunday evening, and incremental backups occur Monday through Saturday in the evening. If data loss were to occur on a Thursday before the backup window, which of the following is the number of backup sets that would be needed to retrieve the lost data come Friday morning?



Section: (none)
Explanation

Explanation/Reference:

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 253

A network technician is setting up a new web server on the company network. One of the requirements for the web server is to ensure the end users can securely authenticate to the application to perform their job duties. Which of the following ports should the network technician request from the firewall team to comply with this requirement?

- A. 22
- B. 69
- C. 80
- D. 389
- E. 443



Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 254

A network technician is working on a way to set up a new branch office securely. The network manager confirms the company does not have any plans to expand to any other new sites and wants to implement the most cost-effective solution. Which of the following would be the BEST type of VPN to implement?

- A. Client-to-site VPN
- B. DMVPN

- C. Site-to-site VPN
- D. MPLS VPN

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 255

A user claims to have no Internet access but can access local resources. A technician determines the issue is with a configuration because a ping to a working public website shows a response that starts with:

Ping request could not find host

Which of the following is the MOST likely misconfiguration?

- A. Incorrect netmask
- B. DNS
- C. DHCP
- D. SSL certificate



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 256

A network engineer wants to implement a technology that allows for an all-in-one approach to incoming and outgoing traffic from the Internet. This device should be able to filter content and scan for malicious information in each packet. Which of the following types of devices would be necessary?

- A. UTM appliance
- B. IDS appliance
- C. Proxy server
- D. RADIUS server

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 257

Which of the following technologies allows network traffic to come into the network on a certain port and go to a destination server with a different port?

- A. Spanning port
- B. Port forwarding
- C. Port mirroring
- D. Port tagging

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 258

A developer has asked a network engineer for a small network segment of five computers connected via a Layer 1 device, configured in a star topology, and segregated from the corporate network. Which of the following would BEST fulfill the developer's request?

- A. Connect the five PCs to a hub that is not connected to the corporate network.
- B. Connect the five PCs to a switching router and assign the PCs to a separate VLAN.
- C. Connect the five PCs to a hardware firewall that is connected to the router.
- D. Connect the five PCs to a switch and configure the ports with implicit deny ACLs for outbound traffic.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 259

First thing on Monday morning, after a maintenance weekend, the help desk receives many calls that no one can access the Internet. Which of the following types of documentation should the on-call network administrator consult FIRST?

- A. Firewall configuration documentation
- B. Change management documentation
- C. Network performance baseline
- D. Logical diagram

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 260

A network team at a large company has received funding for a WiFi refresh. One of the requirements in the RFP is the new WLAN infrastructure must provide APs that support multiple streams of information at the same time. For which of the following WiFi features is the network team looking?

- A. MU-MIMO
- B. MIMO
- C. Channel bonding
- D. TDM
- E. Automatic channel selection

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 261

Multiple users are experiencing slow performance when downloading large files from a specific site. Which of the following should the technician do to check the connection to the external site?

- A. Check the latency by running a continuous ping to the site.

- B. Perform the `ipconfig/flushdns` command on the affected users' PCs.
- C. Run a speedtest from a user's PC to a site on the Internet.
- D. Verify if there is MTU mismatch in the path to the site.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 262

A brokerage firm requires high-speed network connectivity between several buildings in the financial district. Which of the following topologies would BEST meet this requirement?

- A. PAN
- B. WLAN
- C. SAN
- D. MAN



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 263

A security administrator wants to implement the ability to prevent an authorized user from tailgating into the office building. Which of the following should be implemented?

- A. Badge reader
- B. Bluetooth reader
- C. Cipher lock
- D. Mantrap

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 264

Joe, a user, reports intermittent connectivity issues, but a technician notices that the only time Joe has issues is when he is logged into the database. Losing connection after authenticating to a database, but still having access to network resources such as file/print services and email, would MOST likely be caused by:

- A. an incorrect DHCP gateway setting
- B. a duplicate IP address
- C. NTP synchronization
- D. ACL configuration

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 265

A server rack was moved from one floor to another. The network engineer needs to determine what physical changes to make on the network to ensure the server rack has connectivity. Which of the following should the network engineer consult?

- A. Standard operating procedures
- B. Wiring diagram
- C. Inventory documentation
- D. Network baseline

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 266

A network administrator needs to be able to burst datacenter capacity during peak times, but does not want to pay for on-premises hardware that is not used during off-peak times. Which of the following would aid in this scenario?

- A. Public cloud
- B. SaaS
- C. PaaS
- D. Hybrid cloud

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 267

A company has experienced a major security breach. Which of the following should the network administrator reference to determine the next steps?

- A. Non-disclosure policy
- B. Data loss prevention policy
- C. Acceptable use policy
- D. Incident response policy



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 268

A technician restored network connectivity on a user's laptop. After validating full system functionality, which of the following steps should the technician take NEXT?

- A. Duplicate the problem, if possible
- B. Determine if anything has changed
- C. Test the theory to determine the cause

D. Document the findings, actions, and outcomes

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 269

Which of the following is an IPv6 transition mechanism in which network devices utilize IPv4 and IPv6 at the same time?

- A. 6to4
- B. ISATAP
- C. Teredo
- D. Dual stack

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 270

Which of the following protocols operates at Layer 4 of the OSI model?

- A. TCP
- B. ARP
- C. IMAP
- D. POP3

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 271

In the past, users brought personal laptops to the office to bypass some of the security protocols on their desktops. Due to new security initiatives, management has asked that users not be allowed to attach personal devices to the network. Which of the following should a technician use to BEST meet this goal?

- A. Shut down unused ports on switches
- B. Upgrade firmware on network devices
- C. Allow only secure protocols on the network
- D. Disable unnecessary services

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 272

A technician is installing a SOHO router. Which of the following should be performed on every installation and periodically maintained to prevent unauthorized access? (Choose two.)

- A. Disable remote management
- B. Update the router firmware
- C. Disable port forwarding
- D. Use complex passwords
- E. Disable the SSID broadcast

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 273

A company is contracting a new third-party organization that will handle storage of the company's critical data. Which of the following policies would ensure the data remains confidential?

- A. SLA

- B. NDA
- C. MOU
- D. BYOD

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 274

A technician must install and configure a network device in a building with 20 classrooms. Each room must be on a separate subnet and should not be able to see traffic from other subnets. Which of the following is the MOST cost-effective solution?

- A. A switch with VLANs created for each segment
- B. A router with interfaces connected to a switch in each room
- C. A VoIP endpoint connected to a hub for each network
- D. A firewall with DHCP pools for each subnet

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 275

Which of the following WAN transmission mediums is the fastest and can travel the longest distance?

- A. Satellite
- B. Copper
- C. Wireless
- D. Fiber

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 276

The process of grouping network interfaces together to increase throughput is called:

- A. VLAN tagging
- B. load balancing
- C. port aggregation
- D. fault tolerance

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 277

Which of the following is used to purposely attack a system to exploit vulnerabilities?

- A. Honeypot
- B. Vulnerability scan
- C. Device hardening
- D. Penetration testing

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 278

A company must create a way for partners to access a web portal to update documents for a project. This should be done only via web browser in a transparent way for the users. Which of the following should be used?

- A. Site-to-site connection

- B. SSL VPN
- C. GRE tunnel
- D. VNC

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 279

A network technician needs to install the latest firmware on the switch to address a recently discovered vulnerability. Which of the following should the technician do to have a rollback plan in case of issues with the new firmware? (Choose two.)

- A. Label the switch with IP address and firmware version
- B. Draw the switchport diagram
- C. Create a change management document
- D. Draw the network rack logical diagram
- E. Confirm standard operating procedures documentation
- F. Create a performance baseline of the switch



Correct Answer: CF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 280

Which of the following storage connection types should be used to allow the consolidation of the physical connections for SAN and LAN in just one Layer 2 protocol?

- A. Fibre Channel
- B. SCSI
- C. T1/E1
- D. FCoE

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 281

A network administrator is securing the wireless network in a multitenant building. The network uses a passphrase for authentication so it is easy to allow guests onto the wireless network, but management would like to prevent users from outside the office space from accessing the network. Which of the following security mechanisms would BEST meet this requirement?

- A. MAC filtering
- B. WPA-PSK
- C. 802.1X
- D. Geofencing

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 282

A technician is asked to provide centralized SSID management across the entire WAN. The BEST solution would be to:

- A. use a configuration management server
- B. configure a multilayer switch
- C. install a wireless controller
- D. use a proxy server

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 283

A network technician is coordinating the upgrade of the company's WAP firmware with all the remote locations. The company has occasionally experienced errors when transferring large files to some of the remote offices. Which of the following should be used to ensure files arrive without modifications?

- A. File hash
- B. Encryption
- C. FCS
- D. Compression

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 284

A network administrator needs to implement a new IP subnet containing 29 hosts. It is possible that the number of hosts in that subnet could eventually double. The company only has a single, unused public IP network left to work with: 164.10.12.0/24. Which of the following would be the BEST way to divide this network without wasting addresses?

- A. 164.10.12.0/24
- B. 164.10.12.64/29
- C. 164.10.12.128/26
- D. 164.10.12.191/28

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 285

A network technician is reviewing the company phone system to make the necessary changes to a firewall configuration. Which of the following protocols are used in VoIP communication? (Choose two.)

- A. SIP
- B. NTP

- C. H.323
- D. SNMP
- E. IMAP
- F. SMB
- G. CSMA

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 286

A technician is required to install a new DOCSIS-based Internet connection. Which of the following medium types does this use?

- A. Cat6a
- B. RG-6
- C. UTP
- D. Multimode
- E. Single mode



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 287

While reviewing switch logs, a network analyst notices many failed logon attempts followed by a successful logon from an unknown IP address. Which of the following hardening techniques should be utilized to prevent unauthorized access?

- A. Avoiding common passwords
- B. File hashing
- C. Disabling unused IP ports
- D. Using secure protocols

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 288

Which of the following routing conventions is known as a link-state protocol?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 289

A technician is making the population of routers more secure. Which of the following are the BEST options for making authentication more secure? (Choose two.)

- A. Add a login banner.
- B. Disable unused services.
- C. Upgrade the firmware.
- D. Disable Telnet.
- E. Implement AAA.
- F. Disable SSH.

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 290

A network administrator has signed up for service with a new ISP. The administrator was given the IP address of 172.17.10.254/30 to use on the external interface of the Internet-facing router. However, the network administrator cannot reach the Internet using that address. Which of the following is the MOST likely explanation?

- A. The address provided by the ISP has a mask that is too small to be used and needs a larger mask.
- B. The address provided by the ISP is a private IP address space and is not routable on the Internet.
- C. The address provided by the ISP is the wrong one; they should be using 172.17.10.252/30.
- D. The address provided by the ISP is part of the reserved loopback address space and cannot be used.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 291

A company deploys many workers in the field who remotely access files from a server at headquarters. Leadership is concerned about the risks posed when field workers update these files from unsecured networks. Which of the following policy changes can the company make to MOST improve the confidentiality of connections when connecting remotely? (Choose two.)

- A. Implement SSL VPN connections from the remote devices to headquarters.
- B. Change file access protocols from SFTP to FTP on the remote devices.
- C. Utilize HTTPS to access the company intranet from remote devices.
- D. Configure WPA2 on the wireless networks at headquarters.
- E. Configure IMAP over port 143 for email access on remote devices.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 292

A security administrator wants to implement the ability to prevent an unauthorized user from tailgating into the office building. Which of the following should be implemented?

- A. Badge reader
- B. Bluetooth reader
- C. Cipher lock
- D. Mantrap

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 293

A network engineer has connected the storefront with the maintenance shed on the other side of a golf course using 802.11 wireless bridges and omnidirectional antennas. However, the signal strength is too weak. Which of the following is the MOST efficient and cost-effective solution to solve the issue?

- A. Replace the omnidirectional antennas with unidirectional antennas.
- B. Put protective enclosures around the omnidirectional antennas to prevent damage from golf balls.
- C. Replace the 802.11 wireless standard and use GSM instead.
- D. Replace the wireless bridges with wireless routers.



Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 294

Which of the following would block access to an untagged port when connected to a Layer 2 device?

- A. BPDU guard
- B. Spanning tree
- C. Flood guard
- D. Root guard

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 295

Which of the following OSI layers contains the LLC function?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 296

Which of the following BEST describes the RADIUS authentication service protocol?

- A. A protocol that sends passwords to the authentication server
- B. A protocol that sends encrypted tickets from the authentication server
- C. A protocol that sends X.500 service requests to the authentication server
- D. A protocol that sends configuration information from the authentication server

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 297

A network technician is installing a new PTZ camera for the security department. The camera is capable of being powered via the Ethernet cable, but it is not powering on. The network technician has tested the cable and received positive results. Which of the following is MOST likely the issue?

- A. The camera requires PoE+, but the switch is delivering only PoE.
- B. A straight-through cable is being used, but the camera requires a crossover cable.
- C. The camera is configured for the wrong segmented network.
- D. The cable has a bad pinout and needs to be reterminated.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 298

Which of the following would be BEST for continually monitoring and alerting of possible attacks on a network?

- A. Conducting daily vulnerability scans
- B. Performing daily port scans
- C. Utilizing a protocol analyzer
- D. Using a SIEM
- E. Reviewing daily logs

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 299

Which of the following manages the delegation of physical equipment to the virtual components?

- A. Virtual router
- B. Hypervisor
- C. Virtual switch
- D. Network card

Correct Answer: B

Section: (none)

Explanation



Explanation/Reference:

QUESTION 300

Some users are reporting a high response time to access network resources after a new network router was installed. Which of the following documents should be updated every time a change is implemented on the network to have information about the metrics that represents how the network behaves during the normal scenarios?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 301

Ann, a network technician, has relocated a rack that contains the networking and server equipment from the third floor to the sixth floor. To connect the rackmounted router to the media converter in the first-floor MDF, she extended the length of the original 197ft (60m) Cat5e cable to 395ft (120m) by attaching another 197ft (60m) cable with an RJ45 coupler. After the move, users report intermittent connectivity to external websites, although connectivity to internal hosts has not changed. Which of the following is a network performance issue that is MOST likely causing this issue?

- A. Attenuation
- B. Jitter
- C. Crosstalk
- D. Transceiver mismatch

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 302

Which of the following allows for file-level network storage?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 303

A corporation has been the target of hackers who exploited TCP port 80. The network administrator is tasked with securing connections to the web server. Which of the following protocols should be implemented to BEST secure the web server? (Choose two.)

- A. HTTPS
- B. SSH
- C. TLS
- D. VNC
- E. RDP
- F. SFTP

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 304

A network technician is installing a wireless solution. The solution needs to support new and legacy wireless network clients at the maximum possible speed. Which of the following wireless standards should the technician install?

- A. 802.11a

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

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 305

Which of the following components acts as an intermediary device between the internal user's PC and external web servers to provide caching services that save on Internet bandwidth resources?

- A. Firewall
- B. Proxy server
- C. IDS
- D. Load balancer

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 306

Which of the following steps is a network technician MOST likely to take to secure a new network printer? (Choose two.)

- A. Change the default credentials.
- B. Disable unnecessary services.
- C. Secure the physical access.
- D. Generate new encryption keys.
- E. Enable HTTPS access.
- F. Turn on WPS.

Correct Answer: AB



Section: (none)

Explanation

Explanation/Reference:

QUESTION 307

A network administrator is deploying a new switch in an existing IDF. The current switch has only copper Ethernet ports available to use for the trunk ports. Which of the following cable types should the network administrator deploy?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 308

A switch is being configured for installation into a new building. The network design is such that the only DHCP server resides in the datacenter. A traditional three-layer network hierarchy is being used, and all buildings have a Layer 3 connection back to the core. Which of the following should the technician configure to get DHCP working properly in the new building?

- A. The SMTP relays in the datacenter
- B. The MAC address reservations
- C. The IP helper address on the switch
- D. The ARP forwarding on the switch

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 309

A web server administrator has changed the domain registrar's A record for the company's website. External users can reach the website, but internal users are unable to do so. The web server is accessible by typing the internal IP into a web browser. Which of the following is the reason why the web server cannot be accessed?

- A. The NAT has not been configured to point to an internal resource.
- B. An egress firewall rule is blocking access to the web server.
- C. The IDS has determined it is a rogue web server.
- D. The corporate DNS server has not been updated.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 310

Joe, a network technician, has received a report that one of his clients is experiencing an issue connecting to the network. Joe observes two clients are connected to a hub, which is connected to separate wall jacks. Which of the following has MOST likely occurred?

- A. Switching loop
- B. ARP cache poisoning
- C. Improperly tagged ports
- D. Wrong VLAN assignment
- E. Duplicate IP addresses

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 311

A technician is working on a Linux VM in a lab environment to become more familiar with the operating system. The technician has configured a basic website and wants to allow access to it from a different machine on the local network. Which of the following should the technician do so other machines can connect?

- A. Allow communication through ifconfig.
- B. Use netstat to open necessary ports.
- C. Add access rules in iptables.
- D. Employ arp to configure a new route.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 312

A network administrator notices a wireless network with the SSID HOME-33BC-5G that has a high signal strength and open authentication. When the administrator connects to the SSID, corporate servers can be accessed. Which of the following has the network administrator discovered?

- A. Evil twin
- B. Man in the middle
- C. Spoofing
- D. Rogue AP
- E. Wardriving



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 313

A network technician is segmenting a network to allow for unauthenticated public connections to a server. Which of the following devices would BEST safeguard the internal network from the public-facing server?

- A. Router
- B. Layer 3 switch
- C. Proxy server
- D. Firewall
- E. Intrusion detection system

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 314

When trying to determine why users are unable to access a web-based application that was working the previous day, which of the following should be the FIRST question to ask to determine the scope of the issue?

- A. What has been changed on the web server since the previous day?
- B. Is the application online for the end user to access?
- C. Does the user have access to the application?
- D. Is this a system-wide issue or just a certain user's issue?

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 315

A technician is troubleshooting a host that is having intermittent issues connecting to internal network resources and the company servers. Using a packet sniffer, the technician notices there are several TCP communications that are missing packets in sequence and need to be retransmitted. The technician receives several SYN-ACK packets with incorrect addressing. Which of the following is the MOST likely cause of these issues?

- A. DNS poisoning attack
- B. Evil twin on the company network
- C. ARP poisoning attack
- D. Misconfigured VLAN on the local switch

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 316

A security manager asks a technician to install a network device that will provide information about attacks against the network but will not stop them. Which of the following devices is MOST suited for this task?

- A. IDS
- B. IPS
- C. Layer 7 firewall
- D. RADIUS server

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 317

Which of the following services describes a distribution model in which applications are hosted by a service provider and made available to users?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 318

A company's receptionist hands out slips of paper with access codes to visitors each day. A recent internal audit revealed the current method of guest access needs to be improved. Which of the following would improve the security of the guest network?

- A. Implement WPA2-PSK.
- B. Implement a captive portal.
- C. Implement certificate-based 802.1X.

D. Implement MAC filtering.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 319

A consulting company was hired to project and deploy a new datacenter in a different city. This new facility must have the same components installed as the current datacenter to be ready to take over all the network services as soon as the primary site becomes unavailable. Which of the following describes what will be deployed in the new location?

- A. Cold site
- B. Hot site
- C. Warm site
- D. Off-site backup
- E. Infrastructure as a service

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 320

A network administrator has configured the network on each floor of a four-story building to have the following different subnets: 10.0.10.0/24, 127.0.0.0/24, 172.16.0.0/24, and 192.168.255.0/24. After implementing these networks, the administrator realizes there has been a mistake. Which of the following BEST describes the mistake?

- A. 10.0.10.0/24 is not valid because 0 in the second octet cannot be used in the network portion of the IP address.
- B. 127.0.0.0/24 is the reserved loopback network and cannot be used for host networks.
- C. 172.16.0.0/24 is the reserved multicast network and cannot be used for host networks.
- D. 192.168.255.0/24 is not valid because 255 in the third octet cannot be used in the network portion of the IP address.

Correct Answer: B



Section: (none)

Explanation

Explanation/Reference:

QUESTION 321

Given the table below:

Host Name	IP Address
Host A	192.168.10.22/24
Host B	192.168.10.23/24
Host C	192.168.11.125/24
Host D	192.168.11.53/24
Host E	192.168.5.15/24

Which of the following addresses can Host E send a packet to that will reach Hosts C and D, but not Hosts A and B?

- A. 192.168.5.1
- B. 192.168.11.0
- C. 192.168.11.255
- D. 192.168.255.255

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 322

A network technician discovers there is no connectivity on a T1 line even though the cable connection appears to be in place. The router shows there is no active connection on the port. The issue is occurring between the demarcation point and the router port. The router cable tests fine and is terminated at the demarcation panel. Which of the following tools should be used to fix the issue?

- A. Punchdown tool
- B. Crimper
- C. OTDR
- D. Loopback adapter

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 323

Which of the following properties should be configured to extend logical network separation on an uplink interface to a second switch?

- A. 802.1Q trunking
- B. Multiple untagged ports
- C. Port mirroring
- D. Management VLAN

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 324

A new datacenter is being created, and management is trying to control access to that area. Which of the following are the BEST choices for providing access to the new datacenter? (Choose two.)

- A. Captive portal
- B. Wireless IP camera
- C. Biometrics
- D. Key fob
- E. Private key infrastructure
- F. Access control list

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 325

A network technician is capturing packets on the network and notices a UDP packet stream from a phone to the PBX system. The payload of the packet shows the phone downloaded the file cm7910-sccp-load-2995.xml. Which of the following protocols was MOST likely used to download this file?

- A. SIP
- B. TFTP. SSL
- D. ICMP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 326

A security manager asks the network administrator to block VoIP protocols using the default ports on the corporate firewall. Which of the following ports should be blocked to prevent this type of traffic from going outside the company's network? (Choose three.)

- A. 67
- B. 68
- C. 161
- D. 636
- E. 1720
- F. 5060
- G. 5061

Correct Answer: EFG

Section: (none)

Explanation

Explanation/Reference:

QUESTION 327

When connecting to a network device through a remote connection for configuration purposes, which of the following protocols is MOST secure?

- A. SFTP
- B. SSH
- C. SNMPv1
- D. LDAPS

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 328

A network technician is helping an end user who is working on a spreadsheet for a very important client. The client can see the file on the remote share but is not able to open the document to print it. This issue is associated with which of the following OSI layers?

- A. Layer 2
- B. Layer 3
- C. Layer 6
- D. Layer 7

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 329

A flood disables the equipment in a company's server room. When implementing the disaster recovery plan, all operations are immediately transitioned to another location with momentary downtime. This is an example of a:

- A. warm site.
- B. cold site.
- C. snapshot.
- D. hot site.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 330

A network administrator is reviewing security logs and notes a strange IP address logging into the management console of a switch. The administrator verifies the switch is not using default credentials. Which of the following steps should the administrator take NEXT?

- A. Implement restrictions via ACL.
- B. Update firmware to the current version.
- C. Disable unnecessary services.
- D. Check the hash of the running firmware.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 331

Management asks a network technician to install a new connection between two main locations. Management requests that the connection be the fastest possible for data replication. Which of the following would be the MOST appropriate type?

- A. PRI
- B. ADSL
- C. T3/E3
- D. ISDN

Correct Answer: C



Section: (none)

Explanation

Explanation/Reference:

QUESTION 332

To increase security and usability of the wireless network, a back-end RADIUS server is used to authenticate users. Which of the following encryptions methods should be used to accomplish this?

- A. WPA2-Personal
- B. WPA2-Enterprise
- C. WPA
- D. WEP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 333

A network technician is investigating a device that has been reported as responding slowly. Which of the following should the technician check FIRST?

- A. Power status
- B. Traffic analysis
- C. Logical diagram
- D. Utilization

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 334

A network engineer utilizes a box of Cat5e cable in a datacenter for use between 10Gbps switches in a single rack. After the engineer finishes the installation, switch administrators notice random speed drops and intermittent connection issues. Which of the following is this an example of?

- A. Incorrect cable type
- B. Attenuation
- C. Incorrect pinout
- D. Bad ports

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



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