N10-007

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Exam A

QUESTION 1
A technician has racked a new access switch and has run multimode fiber to a new location. After installing an extended-range 10Gb SFP in the core switch, the technician installed a 10Gb SFP in the access switch and connected the port to the new extension with a fiber jumper. However, the link does not display, and the technician cannot see light emitting from the core switch. Which of the following solutions is MOST likely to resolve the problem?

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A. Swap the fiber pairs in one of the SFPs
B. Replace the jumpers with single-mode fiber
C. Set the correct MTU on the new interface
D. Install an optic that matches the fiber type

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2
A network technician has implemented ACLs to limit access to cloud-based file storage. Which of the following security mechanisms has the technician enforced?

A. DLP
B. IDS
C. WAF
D. WPA
E. TPM

Correct Answer: C
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 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 5

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 6

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 7

A network engineer is configuring wireless access for guests at an organization. Access to other areas in the organization should not be accessible to guests. Which of the following represents the MOST secure method to configure guest access to the wireless network?

A. Guests should log into a separate wireless network using a captive portal

B. Guests should log into the current wireless network using credentials obtained upon entering the facility

C. The existing wireless network should be configured to allow guest access

D. An additional wireless network should be configured to allow guest access

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8
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 9
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 10
A network technician is troubleshooting an issue and has established a theory of probable cause. Which of the following steps should the network technician take NEXT?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11
A network technician has discovered a rogue access point placed under an empty cubicle desk. Which of the following should the technician perform to ensure another cannot be placed on the network?

A. Disable unused ports on switches
B. Enable DHCP guard to detect rogue servers
C. Configure WPA2 on all access points
D. Use TACACS+ authentication

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

A. `traceroute`

B. `ping`

C. `nslookup`

D. `netstat`

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
Which of the following security mechanisms dynamically assigns a Layer 2 address and restricts traffic only to that Layer 2 address?

A. Sticky MAC
B. 802.1x
C. ACL
D. NAC

Correct Answer: A
Section: (none)
Explanation

QUESTION 17
Which of the following is a vulnerable system designed to detect and log unauthorized access?

A. SIEM
B. Honeypot
C. DMZ
D. Proxy server

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 18
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 19
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 20
In a service provider network, a company has an existing IP address scheme. Company A's network currently uses the following scheme:

```
Subnet 1: 192.168.1.0/26
Subnet 2: 192.168.1.65/26
```

Company b uses the following scheme:
```
Subnet 1: 192.168.1.50/28
```

The network administrator cannot force the customer to update its IP scheme. Considering this, which of the following is the BEST way for the company to connect these networks?

A. DMZ
B. PAT
C. NAT
D. VLAN

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 21
A network technician notices the site-to-site VPN and Internet connection have not come back up at a branch office after a recent power outage. Which of the following is an out-of-band method the technician would MOST likely utilize to check the branch office's router status?

A. Use a modem to console into the router

B. Walk a user through troubleshooting the connection
C. Travel to the branch office
D. Hire a contractor to go on-site

Correct Answer: A
Section: (none)
Explanation
Explanation/Reference:

QUESTION 22
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

QUESTION 23

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

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24

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 25

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 26
A technician is setting up a direct connection between two older PCs so they can communicate but not be on the corporate network. The technician does not have access to a spare switch but does have spare Cat 6 cables, RJ-45 plugs, and a crimping tool. The technician cuts off one end of the cable. Which of the following should the technician do to make a crossover cable before crimping the new plug?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27
Which of the following is the number of broadcast domain that are created when using an unmanaged 12-port switch?

A. 0
B. 1

C. 2

D. 6

E. 12

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28

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 29

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

A. Change management policy

B. Remote access policy

C. Acceptable use policy

D. Memorandum of understanding

Correct Answer: A

QUESTION 30
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 31
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 32
Client PCs are unable to receive addressing information from a newly configured interface on a router. Which of the following should be added to allow the clients to connect?

A. DHCP lease time
B. IP helper
C. TTL
D. DNS record type

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 33
When enabling jumbo frames on a network device, which of the following parameters is being adjusted?

A. Speed
B. Duplex
C. MTU
D. TTL

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 34
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 35
Which of the following should current network performance be compared against to determine network anomalies?

A. Baseline
B. Traffic analysis
C. Packet capture
D. Logs

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36
A network administrator configures an email server to use secure protocols. When the upgrade is completed, which of the following ports on the firewall should be configured to allow for connectivity? (Choose three.)

A. TCP 25
B. TCP 110
C. TCP 143
D. TCP 389
E. TCP 587
F. TCP 993
G. TCP 995

Correct Answer: EFG
Section: (none)
Explanation

Explanation/Reference:

QUESTION 37

The backup server connects to a NAS device using block-level storage over Ethernet. The performance is very slow, however, and the network technician suspects the performance issues are network related. Which of the following should the technician do to improve performance?

A. Utilize UDP to eliminate packet overhead
B. Turn off MDIX settings on the NAS and server switchports
C. Enable jumbo frames on the NAS and server
D. Encapsulate the storage traffic in a GRE tunnel

Correct Answer: C
Section: (none)
Explanation
Explanation/Reference:

QUESTION 38

A network technician is able to connect the switches between two offices, but the offices cannot communicate with each other, as each office uses a different IP addressing scheme. Which of the following devices needs to be installed between the switches to allow communication?

A. Bridge
B. Access point
C. Router
D. Range extender

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 39
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 40
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 41
A network technician is connecting two switches together. Which of the following protocols should the technician use to increase speed and fault tolerance?

A. SIP
B. BGP
C. LACP

D. LLDP

QUESTION 42
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

QUESTION 43
Which of the following is a reason why a business may be hesitant to move sensitive data to a SaaS cloud service?

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

QUESTION 44
Users have been experiencing slow network response times, and management has asked the network technician to provide evidence of network improvement.
After optimizing the network, which of the following would be required?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 45
A network technician has created a network that consists of a router, a firewall, a switch, and several PCs. Which of the following physical network topologies was created?
A. Star
B. Mesh
C. Ring
D. Bus

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 46
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 47
An end-user device requires a specific IP address every time it connects to the corporate network; however, corporate policy does not allow the use of static IP addresses. Which of the following will allow the request to be fulfilled without breaking the corporate policy?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 48
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 49
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 50
A systems administrator has recently purchased and installed a large electronic signage screen for the company's parking garage. The screen's management software was installed on a server with a public IP address to allow remote management. The systems administrator is now troubleshooting an issue with the screen displaying unknown, random, and inappropriate messages. Which of the following is MOST effective in resolving this issue?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 51

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 52
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 53
As part of a transition from a static to a dynamic routing protocol on an organization's internal network, the routing protocol must support IPv4 and VLSM. Based on those requirements, which of the following should the network administrator use? (Choose two.)

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

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 54
Which of the following MUST be implemented to share metrics between routing protocols within the same router?

A. Routing loop
B. Routing table
C. Route redistribution
D. Dynamic routes
Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 55
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 56

A contractor is setting up and configuring conference rooms for a convention. The contractor sets up each room in the conference center to allow wired Internet access going to individual tables. The contractor measured the distance between the hotel's patch panel to the jack, and the distance is within Cat 5e specifications. The contractor is concerned that the room will be out of specification if cables are run in each room from the wall jacks. Which of the following actions should the contractor take to ensure the cable runs meet specifications and the network functions properly?

A. Place a switch at the hotel's patch panel for connecting each room's cables
B. Place a switch on each table to ensure strong connectivity
C. Place repeaters between the patch panel and the rooms
D. place a switch at the wall jack and run the cables in the room from there

Correct Answer: A
Section: (none)
Explanation
Explanation/Reference:

QUESTION 57

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

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 58
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 59
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 60
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
APv4 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 61
Ann, a network technician, has just installed a fiber switch in a datacenter. To run the fiber cabling, Ann plans the cable route over the top of the rack using the cable trays, down to the switch, coiling up any excess cable. As Ann configures the switch, she notices several messages in the logging buffer stating the receive signal of the SFP is too weak. Which of the following is MOST likely the cause of the errors in the logging buffer?

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

D. Bad fiber switch

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 62
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 63
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 64
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 65
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 66
Which of the following communication media can carry many voice, data, and video channels simultaneously over multiple frequencies?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 67

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 68

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

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 69

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

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 70
An employee wishes to use a personal cell phone for work-related purposes, including storage of sensitive company data, during long business trips. Which of the following is needed to protect BOTH the employee and the company?
A. An NDA ensuring work data stored on the personal phone remains confidential
B. An AUP covering how a personal phone may be used for work matters
C. A consent to monitoring policy covering company audits of the personal phone
D. Real-time remote monitoring of the phone's activity and usage

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 71
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 72
An analyst is developing a proof of concept of a wireless-based attack as part of a penetration test against an organization's network. As part of the attack, the analyst launches a fake access point matching the SSID of the organization's guest access network. When a user connects to the fake access point, the analyst allows the traffic to flow through the access point to the legitimate site while the data traversing the network is logged for latest analysis and exploitation. Which of the following attacks has the analyst successfully performed in this scenario?

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

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 73
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 74
A network technician is building a network for a small office. The office currently has cable TV and now requires access to the Internet without adding any cabling other than what is already in place. Which of the following solutions should the technician install to meet these requirements?

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

Correct Answer: A
Section: (none)
Explanation
Explanation/Reference:

QUESTION 75
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 76
Which of the following VPN protocols establishes a secure session that can be initiated using a browser?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 77
A technician is setting up a public guest network for visitors to access the Internet that must be separate from the corporate network. Which of the following are the BEST steps for the technician to take with minimum overhead configuration? (Choose two.)
A. Enable SSID broadcasting to identify the guest network
B. Configure visitor devices to use static IP addresses
C. Enable two-factor authentication on visitor devices
D. Configure the access point to use WPA2-AES encryption
E. Ensure the access point is not running in mixed mode

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 78

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

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 79
Which of the following WAN technologies utilizes the concept of virtual circuits and point-multipoint connections?

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

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 80
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 81

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)
Explanation

Explanation/Reference:

QUESTION 82

A small business developed an in-house application that is very sensitive to network latency when a communicating between servers. Due to a lack of funds, the business had to build its own network for workstations and servers. Now a network administrator must redesign the network due to performance issues with the application. Which of the following would be the MOST cost effective for the administrator to recommend?

A. Create Ethernet VLANs
B. Disable autonegotiation on the servers
C. Install 10Gb Ethernet NICs in the servers

D. Install Fibre Channel for the server network

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 83
A network technician is configuring a firewall access list to secure incoming connections to an email server. The internal address of this email server is 192.168.1.143. The firewall should allow external email servers to send email to the email server. The email server also supports client access via a web browser. Only secure protocols should be used, and only the necessary ports should be open. Which of the following ACL rules should be configured in the firewall's WAN port? (Choose two.)

A. Permit 192.168.1.143.25
B. Permit 192.168.1.143.80
C. Permit 192.168.1.143.110
D. Permit 192.168.1.143.143
E. Permit 192.168.1.143.443
F. Permit 192.168.1.143.587

Correct Answer: EF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 84
A technician replaces a failed router with a spare that has been in inventory for some time. After attempting to enable HTTPS on the spare router, the technician discovers the feature is unavailable. The support office was able to connect to the previous router. Which of the following actions should the technician perform to enable HTTPS access for the support team?

A. Reboot the router
B. Enable HTTP on the router
C. Update the firmware of the spare router

D. Perform a factory reset on the router

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 85
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 86
Which of the following is the SHORTEST way to write 2001:0000:0d58:0000:0000:0095:7565:0001 in proper IPv6 shorthand?
A. 2001::d58::95:7565:1
B. 2001:0:d58:0:0:95:7565:1
C. 2001:0:d58::95:7565:1
D. 2001:0:0d58::95:7565:1

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 87
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 88
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 89
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 90
A network technician is implementing a solution on the network to hide the workstation internal IP addresses across a WAN. Which of the following is the technician configuring?

A. QoS

B. DMZ

C. RIP

D. NAT

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 91
Employees want the ability to use personal devices on the guest network while working out at the company gym. In order to meet the request, which of the following policies requires employee adherence?

A. AUP

B. SLA

C. NDA

D. MOU

Correct Answer: A

Explanation/Reference:

QUESTION 92
Which of the following BEST describes the BGP routing protocol?

A. distance vector B.
hybrid

C. static
D. link state

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 93
A customer is reporting difficulty connecting some devices after replacing a wireless router with a new wireless 802.11ac router. The SSID, encryption and password are the same as the previous router. A technician goes on-site and notices the devices that are no longer connecting appear to be several years ago. Which of the following is MOST likely the problem?

A. the password needs to be re-entered.

B. there is a security type mismatch.

C. there is insufficient antenna power.

D. there is a frequency mismatch.

E. the channel has changed.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 94
Multiple users are reporting that they are unable to access the network. The ENTIRE network is shown in the diagram. PCs are not statically assigned IP addresses. The following devices will display settings:

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

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

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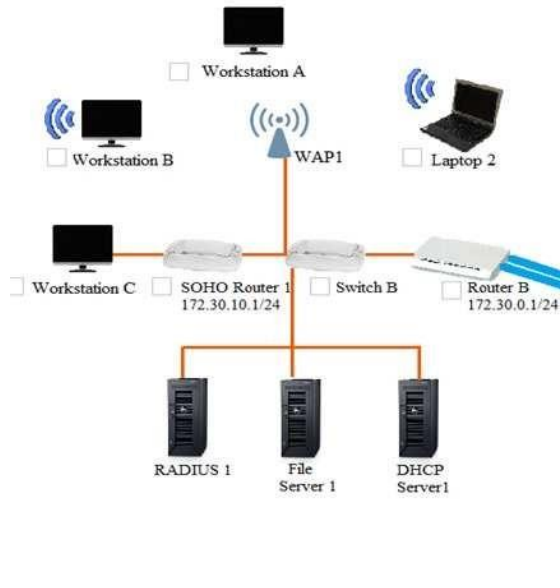
Instructions:

When the simulation is complete, select the Done button to submit.
Part 1

Site A and B Network Diagram

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

SITE A

- Workstation A
- Workstation B
- Workstation C
- WAP1
- Laptop 2
- SOHO Router 1 172.30.10.1/24
- Switch B
- Router B 172.30.0.1/24
- RADIUS 1
- File Server 1
- DHCP Server1

SITE B

- Workstation F
- Workstation G
- 172.16.10.1/24
- SOHO Router 2
- WAP 2
- Laptop 1
- DHCP Server 2
- RADIUS 2
- File Server 2
- Router A 172.16.0.1/24
- Switch D
- Workstation D
- Workstation E
- MultiFunction Device

WORKSTATION A

IP Address	172.30.0.10
Netmask	255.255.255.0
Gateway	172.30.0.1

OK

WORKSTATION B

IP Address	172.30.0.14
Netmask	255.255.255.0
Gateway	172.30.10.1

OK

WORKSTATION C

IP Address	169.254.200.67
Netmask	255.255.255.0
Gateway	

OK

WORKSTATION D

IP Address	172.16.0.221
Netmask	255.255.255.0
Gateway	172.16.0.1

OK

WORKSTATION E

IP Address	172.16.0.21
Netmask	255.255.255.0
Gateway	172.16.0.1

OK

WORKSTATION F

IP Address	172.16.10.43
Netmask	255.255.255.0
Gateway	172.16.10.1

OK

WORKSTATION G

IP Address	172.16.10.120
Netmask	255.255.255.0
Gateway	172.16.10.1

OK

LAPTOP 1

IP Address	172.16.0.220
Netmask	255.255.255.0
Gateway	172.16.0.1

OK

LAPTOP 2

IP Address	172.30.0.12
Netmask	255.255.255.0
Gateway	172.30.0.1

OK

DHCP SERVER 1

IP Address	172.30.0.5
Netmask	255.255.255.0
Gateway	172.30.0.1

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

[OK]

DHCP SERVER 2

IP Address	172.30.0.5
Netmask	255.255.255.0
Gateway	172.16.0.1

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

OK

Part 2

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

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

Correct Answer: G
Section: (none)
Explanation

Explanation/Reference:

QUESTION 95
Which of the following should be performed to verify that unnecessary services are disabled on all switches in an environment?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 96
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 97
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 98
A technician is investigating the cause of a network outage. Which of the following documents should be checked to rule out configuration issues?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 99
A junior network technician receives a help desk ticket from an end user who is having trouble accessing a web application that was working the previous day.
After talking with the end user and gathering information about the issue, which of the following would be the most likely course of action for the technician to perform
NEXT?

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

Correct Answer: A
Section: (none)
Explanation
Explanation/Reference:

QUESTION 100
A system administrator receives reports from users of odd behavior in regard to a recently installed server. While reviewing the server network configuration, the systems administrator does both a forward and a reverse DNS lookup on the host, along with the network adapter configuration.

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

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

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
QUESTION 101
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 102
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 103
Which of the following storage network technologies inherently leverages block-level storage?

A. NAS

B. SAN
C. FCoE
D. iSCSI
E. FTP

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 104

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 105

Which of the following DNS record types is an alias?

A. CNAME
B. PTRC. NS
D. SRV

Correct Answer: A

Section: (none)
Explanation

Explanation/Reference:
QUESTION 106
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 107
In which of the following scenarios should a technician use a cross-over cable to provide connectivity?

A. PC to switch
B. Switch to AP
C. Router to switch
D. Router to modem
E. PC to PC

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 108

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 109
A switch has detected duplicate broadcast messages sourced from a second port. The broadcasts continue to be transmitted and duplicated until the amount of traffic causes severe performance issues. Which of the following should be configured to prevent this behavior?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 110
A Chief Information Officer (CIO) is concentrated about an attacker gaining administrative access to the company's network devices. Which of the following is the MOST secure way to prevent this?

A. ACL allowing only HTTP
B. ACL allowing only Telnet

C. Out-of-band modem
D. Out-of-band console router

Correct Answer: D
Section: (none)
Explanation
Explanation/Reference:

QUESTION 111
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 112
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 113
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 114
A network administrator frequently needs to assist users with troubleshooting network hardware remotely, but the users are non-technical and unfamiliar with network devices. Which of the following would BEST help the administrator and users during hands-on troubleshooting?

A. Logical diagrams
B. MDF documentation
C. Equipment labeling
D. Standard operating procedures

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 115
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 116
A new building needs to be joined to an existing network, but management has decided that running fiber is too expensive. Since the buildings are about 1000ft (305m) apart, the IT department has been asked to propose alternatives. Which of the following is the BEST device to add to each building to facilitate the extension of the network while meeting budgetary demands?

A. Switch
B. Router
C. Media converterD. PRP wireless

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 117
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 118
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 119
A security guard notices an authorized individual, who is dressed like a lab technician, has entered a secure area of the hospital with a large group. Which of the following security attacks is taking place?

A. Evil twin
B. Social engineering
C. Insider threat
D. Phishing

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 120

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

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

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 121

Which of the following provides two-factor authentication?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 122

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

A. Install a six-port switch.
B. Configure port forwarding on the router.

C. Install WAPs near the devices.

D. Configure the switchports as EtherChannel ports.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 123
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 124
A company is allowing its employees to use their personal computers, tablets, and IoT devices while at work. However, there are rules and guidelines to which employees must adhere. Which of the following documents applies to these employees?

A. NDA

B. SOP

C. BYOD

D. SLA

Correct Answer: C

Section: (none)
Explanation

Explanation/Reference:
QUESTION 125
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 126
A technician is troubleshooting network connectivity issues with a remote host. Which of the following tools would BEST inform the technician of nodes between the client and the remote host? (Choose two.)

A. `tracert`
B. `ping`
C. `tcpdump`
D. `pathping`
E. `netstat`
F. `nslookup`
G. `route`

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 127
Which of the following will listen on the line to ensure there is no traffic transmitting and implement a back-off timer if a collision occurs?
A. CSMA/CD
B. CSMA/CA
C. MPLSD. OSPF

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 128
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 spends 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 129
Which of the following BEST describes an exploit?

A. A router with default credentials

B. An open mail relay server

C. An SNMPv1 private community

D. A privilege escalation script

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 130
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 131
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 132
A technician is replacing a failed SOHO router for a customer who has an existing switch, cable modem, and static IP address. The user has a web server that faces the Internet so users can visit and leave comments. Which of the following BEST describes the correct configuration for this customer's requirements?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 133
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 134

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

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 135
A network technician needs to install a new access switch. After installing the new switch, the technician begins to move connections from the old switch to the new switch. The old switch used a GBIC with SC connectors, and the new switch uses an SFP with LC connectors. After connecting the SC connector to the SC-to-LC adapter and plugging it into the switch, the link does not come up as expected. Which of the following should a network technician perform NEXT?

A. Replace SFP with a new one.
B. Fall back to the old switch.
C. Transpose the fiber pairs.
D. Replace multimode with single-mode cable.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 136
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 137
A technician needs to order cable that meets 10GBaseT and fire safety requirements for an installation between a drop ceiling and a standard ceiling. Which of the following should the technician order to ensure compliance with the requirements?

A. PVC Cat 5
B. Plenum Cat 5e
C. Plenum Cat 6a
D. PVC Cat 7

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 138
Which of the following physical security devices is used to detect unauthorized server room access?

A. Access badge
B. Biometrics
C. Smart card
D. Video surveillance

Correct Answer: D

Explanation/Reference:

QUESTION 139
Joe, an employee at a large regional bank, wants to receive company email on his personal smartphone and tablet. To authenticate on the mail server, he must first install a custom security application on those mobile devices. Which of the following policies would BEST enforce this requirement?

A. Incident response policy
B. BYOD policy
C. DLP policy
D. Remote access policy

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 140
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 141
A network administrator is going to be performing a major upgrade to the network. Which of the following should the administrator use in case of a failure?

A. Baseline report
B. Vulnerability report
C. Rollback plan
D. Business continuity plan

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 142
A web application is unable to authenticate customers so they can access their bills. The server administrator has tested the LDAP query but is not receiving results. Which of the following is the NEXT step the server administrator should take to correct the problem?

A. Check port 636 to see if it is being blocked.
B. Change service port 636 to port 389.
C. Restart the web server.
D. Verify the browser is using port 443.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 143
Which of the following devices are MOST often responsible for 802.1q tagging? (Choose two.)

A. Switch
B. Router
C. IDS

D. Hub
E. IPS
F. Network tap

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
QUESTION 144
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 145
Which of the following concepts would BEST describe when a company chooses to use a third-party vendor to host and administer a critical application?

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

Correct Answer: C

Section: (none)
Explanation

Explanation/Reference:

QUESTION 146
Ann, a new employee within a department, cannot print to any of the printers in the department or access any of the resources that others can. However, she can access the Internet. The network engineer has confirmed that Ann's account has been set up the same as the others. There are no access lists restricting Ann's access. Which of the following could be the issue for this lack of access?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 147
A router is set up to utilize RIPv2 to route traffic throughout the network. Which of the following routing metrics is used to determine the path?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 148
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 149
A network technician has salvaged several Ethernet cables from a datacenter. The technician attempts to use the cables to connect desktops to the network without success. Which of the following is MOST likely the issue?

A. The cables have an incorrect pin-out.
B. The cables are UTP instead of STP.
C. The cables are Cat 6 instead of Cat 5.
D. The cables are not plenum rated.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 150
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 151
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 152
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 153
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 154
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 155
A junior technician is setting up a voice control device so the Chief Executive Officer (CEO) will be able to control various things in the office. Of which of the following types of IoT technologies is this an example?

A. LAN
B. WAN
C. SAN
D. PAN

Correct Answer: D
Section: (none)
Explanation
Explanation/Reference:

QUESTION 156
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 157
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 158
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 159
Wireless users have been experiencing connectivity problems. Investigation shows neighboring wireless appliances, which are not connected to the network, have been on the same 5GHz frequency to communicate. Which of the following wireless performance problem concepts defines this issue?

A. Interference
B. Distance limitation
C. Signal-to-noise ratio
D. Absorption

Correct Answer: A

Section: (none)
Explanation

Explanation/Reference:

QUESTION 160
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 161
A technician has deployed an additional DHCP server for redundancy. Clients in certain subnets are not receiving DHCP leases from the new DHCP server. Which of the following is the MOST likely cause?

A. The new DHCP server's IP address was not added to the router's IP helper list.
B. The new DHCP server is not receiving the requests from the clients.
C. The ARP cache of the new DHCP server needs to be updated.
D. The ARP table on the router needs to be cleared.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 162

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 163
A user reports intermittent performance issues on a segment of the network. According to the troubleshooting methodology, which of the following steps should the technician do NEXT after collecting initial information from the customer?

A. Document findings, actions, and outcomes.
B. Establish a theory of probable cause.
C. Establish a plan of action to resolve the problem.
D. Duplicate the problem, if possible.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 164
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 165
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 166

Which of the following should a network administrator use to configure Layer 3 routes? (Choose two.)

A. Multilayer switch
B. Firewall
C. Hub
D. Bridge
E. Modem
F. Media converter

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 167

While logged into a financial application, a user gets errors when trying to write to the database. The network administrator is not familiar with the application and how it communicates with the database. Which of the following documentation types should the network administrator use to troubleshoot the data flow?

A. Logical diagram
B. Physical diagram
C. Network baseline
D. Change management log

Explanation

Explanation/Reference:

Correct Answer: A
Section: (none)
QUESTION 168
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 169
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 170
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 171
A technician has installed multiple new PC clients and is connecting them to the network. Only one client is receiving IP addressing information. Which of the following should the technician verify as the NEXT troubleshooting step?

A. DHCP scope
B. DHCP lease
C. Default gatewayD. DNS zone

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 172
Which of the following WAN technologies swaps the header on a packet when internally switching from one provider router to another?

A. ATM
B. Frame relay
C. MPLS
D. PPP

Explanation

Explanation/Reference:

QUESTION 173
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 174
A network administrator is downloading a large patch that will be uploaded to several enterprise switches simultaneously during the day's upgrade cycle. Which of the following should the administrator do to help ensure the upgrade process will be less likely to cause problems with the switches?

A. Confirm the patch's MD5 hash prior to the upgrade.
B. Schedule the switches to reboot after an appropriate amount of time.
C. Download each switch's current configuration before the upgrade.
D. Utilize FTP rather than TFTP to upload the patch.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 175
The length of an IPv6 address is:

A. 32 bits
B. 64 bits
C. 128 bits
D. 256 bits

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 176
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 177
Management requires remote access to network devices when the ISP is down. Which of the following devices would provide the BEST solution?

A. Router
B. Firewall
C. Bridge

Explanation

Explanation/Reference:

D. Modem

Correct Answer: D
Section: (none)
QUESTION 178
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 ipconfing 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 179
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

Explanation/Reference:

Explanation/Reference:

QUESTION 180
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 181
Which of the following default ports should be opened on a firewall to allow for SSH and Telnet? (Choose two.)

A. 21
B. 22

C. 23
D. 25
E. 123

F. 443

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 182
Two computers are connected to a multilayer switch, and both can access the corporate file server. The computers cannot talk to one another. Which of the following is MOST likely the cause?

A. Duplex/speed mismatch
B. ACL misconfiguration
C. Bad port
D. Crosstalk

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 183
A user calls the help desk for assistance with setting up a new SOHO router. The user has three employees who all have laptops that need to connect to the wireless network. The users need to have firewall rules allowing access to an internal server, but cannot be configured with static IP addresses. Which of the following BEST describes what the technician should implement?

A. CNAME record in the users' dynamic DNS accounts
B. Additional lease time for the laptop computers
C. IP helper relay system for configuration hops
D. DHCP reservation for the laptops' MACs

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 184

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 verity 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 185

A technician is troubleshooting intermittent connectivity on a line-of-sight wireless bridge. Which of the following tools should the technician use to determine the cause of the packet loss?

A. Spectrum analyzer
B. OTDR
C. Packet sniffer
D. Multimeter

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 186

Which of the following should be configured to allow for IP-to-name resolutions?

A. CNAME

B. A
C. PTR
D. NS

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 187
A company has just installed a new cloud VoIP solution; however, users occasionally report poor call quality or dead air being present. Which of the following describes the NEXT troubleshooting step the technician should take?

A. The technician should check the internal diagnostics on all the phones to look for a common thread.
B. The technician should reset all the phones and reprovision information from the provider
C. The technician should use a packet tracer to see if the traffic is getting out of the network
D. The technician should run ping tests on the Internet line to monitor for packet loss and latency

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 188
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 189
Joe, a network technician, wants to locally back up several router and switch configurations. He wants to store them on a server that can be accessed easily for recovery without authentication. Which of the following servers should Joe use?

A. Telnet
B. LDAP
C. TFTP
D. Samba

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 190
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 191
A network technician is installing a new wireless network for a client. The client has experienced issues with other building tenants connecting to the wireless network and utilizing the bandwidth. The client wants to prevent this from happening by using certificate-based authentication. Which of the following technologies should the network administrator implement?

A. WPA-PSK
B. EAP-TLS
C. AES-CCMP
D. WEP-TKIP

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 192
A network administrator is installing a campus network of two routers, 24 switches, 76 APs, and 492 VoIP phone sets. Which of the following additional devices should the administrator install to help manage this network?

A. VoIP PBX
B. Content filter
C. RADIUS server
D. Wireless controller

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 193
A technician arrives at a new building to find cabling has been run and terminated, but only the wall ports have been labeled. Which of the following tools should be utilized to BEST facilitate labeling the patch panel?

A. Tone generator

B. Cable tester
C. Multimeter
D. Loopback adapter

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 194
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 195
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 196
Which of the following physical security devices is used to prevent unauthorized access into a datacenter?

A. Motion detector
B. Video camera
C. Asset tracking
D. Smart card reader

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 197
A few weeks after starting a new position, Joe, a junior network administrator, receives a call from an internal number asking for his username and password to update some records. Joe realizes this may be a type of attack on the network, since he has full access to network resources. Which of the following attacks is described?

A. Logic bomb
B. Social engineering
C. Trojan horse
D. Insider threat

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 198

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 199
A university has a lecture hall containing 100 students. Currently, the lecture hall has two 802.11ac wireless access points, which can accommodate up to 50 devices each. Several students report they are unable to connect devices to the wireless network. Which of the following is MOST likely the issue?

A. One of the wireless access points is on the wrong frequency
B. The students are attempting to connect 802.11g devices
C. The students are using more than one wireless device per seat.
D. Distance limitations are preventing the students from connecting.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 200
A WAP has been dropping off the network sporadically and reconnecting shortly thereafter. The Cat 5 wire connecting the access point is a long run of 265ft (81m) and goes through the business area and the mechanical room. Which of the following should the technician do to fix the AP connectivity issue?

A. Install a repeater to boost the signal to its destination
B. Replace the UTP cable with plenum cable.
C. Upgrade the cable from Cat 5 to Cat 5e.

D. Set the AP to half duplex to compensate for signal loss.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
QUESTION 201
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 202
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 203
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 204
A corporate manager says wireless phones do not work properly inside the main building. After a troubleshooting process, the network administrator detects that the voice packets are arriving on the wireless phones with different delay times. Which of the following performance issues is the company facing?

A. Jitter
B. Latency
C. Attenuation
D. Frequency mismatch

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 205
When speaking with a client, an employee realizes a proposed solution may contain a specific cryptographic technology that is prohibited for non-domestic use. Which of the following documents or regulations should be consulted for confirmation?

A. Incident response policy
B. International export controls
C. Data loss prevention
D. Remote access policies
E. Licensing restrictions

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 206
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 207
A technician has replaced a customer's desktop with a known-good model from storage. However, the replacement desktop will not connect to network resources. The technician suspects the desktop has not been kept up to date with security patches. Which of the following is MOST likely in place?

A. ACL

B. NAC
C. Traffic shaping
D. SDN
E. NTP

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
QUESTION 208
A network technician wants to gain a better understanding of network trends to determine if they are over capacity. Which of the following processes should the technician use?

A. Log review
B. Port scanning
C. Vulnerability scanning
D. Traffic analysis

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 209
An attacker has flooded the hardware tables of a switch to forward traffic to the attacker's IP address rather than the default router. The traffic received is copied in real time, and then forwarded to the default router transparently from the end-user perspective. Which of the following attacks are occurring in this scenario? (Choose two.)

A. DNS poisoning
B. ARP poisoning
C. Man-in-the-middle
D. Ransomware
E. Evil twin
F. Reflective

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 210
A remote user is required to upload weekly reports to a server at the main office. Both the remote user and the server are using a Windows-based OS. Which of the following represents the BEST method for the remote user to connect to the server?

A. RDP
B. Telnet
C. SSH
D. VNC

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 211
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 212
Which of the following is BEST for providing real-time equipment theft alerts to the security staff?

A. Biometric locks
B. Smart card reader
C. Asset tracking tags
D. Motion detection

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 213
A development team has been testing a web server on a virtual server to create a web application. Once satisfied, the development team clones the entire virtual server into production. The development team needs to use HTTP, HTTPS, and SSH to connect to the new server. Which of the following should the network administrator do to help secure this new production VM? (Choose two.)

A. Disable the HTTP port in the host firewall.
B. Upgrade the firmware on the firewall.
C. Generate new SSH host keys.
D. Remove unnecessary testing accounts.
E. Issue a new self-signed certificate.

Correct Answer: CE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 214
After setting up in a temporary office, Joe tries to access the company's wireless network. Following several attempts, Joe is able to get an IP, but cannot access network resources. Which of the following is the MOST likely cause of this error when trying to connect to the company's wireless network?

A. Incorrect passphrase
B. Incorrect power levels
C. Incorrect workstation certificate
D. Incorrect encryption

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
QUESTION 215
Which of the following protocols are used to configure an email client to receive email? (Choose two.)

A. IMAP
B. SMTP
C. POP
D. SFTP
E. TFTP

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 216
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 217
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 218
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 219

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 220
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 221
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 222
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 223
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 224
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 225
Which of the following technologies should be used in high-throughput networks to reduce network overhead?

A. iSCSI
B. QoS tags
C. Port aggregation
D. Jumbo frames

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 226
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 227
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 228
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 229
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 230
A customer wants to set up a guest wireless network for visitors. The customer prefers to not have a password on the network. Which of the following should a technician set up to force guests to provide information before using the network?

A. Single sign-on

B. RADIUS
C. TACACS+
D. Captive portal

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 231
A zero-day vulnerability is discovered that affects a specific network device. This vulnerability only affects services on port 21. This network device is restricted to use only secure protocols and services. Which of the following explains why this device is secure?

A. Because secure protocols would reject malicious packets
B. Because SCP is not a secure service
C. Because FTP is not a secure service
D. Because a secure firewall will protect the device

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 232
When deploying UTP cables in a networking environment, which of the following are acceptable standards? (Choose two.)

A. 10Base2
B. 10Base5
C. 10GBaseT
D. 1000BaseLX
E. 1000BaseSX
F. 1000BaseT

Correct Answer: CF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 233
Which of the following is the physical location where the customer-premise equipment comes together with the ISP or third-party telecommunications equipment?

A. Server room
B. Equipment closet
C. Demarcation point
D. Intermediate distribution frame

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 234
Log files show the admin user has logged into a public-facing device on several occasions in the evening. None of the technicians admit to doing any after-hours work, and the password has been changed several times but failed to prevent the logins. Which of the following should be the NEXT step to attempt to harden the device?

A. Disable unused ports.
B. Reset the two-factor token.
C. Disable virtual ports.
D. Upgrade the firmware.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 235
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 236
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 237
Which of the following BEST describes the characteristics of a differential backup solution?

A. Backs up files with the creation or modified date as the current date.
B. Backs up all files and sets the archive bit.
C. Backs up files with a date earlier than today's date with a clear archive bit.

D. Backs up files with the archive bit set but does not clear the bit.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 238
Which of the following allow for higher fault tolerance, availability, and performance across multiple systems? (Choose two.)

A. Load balancer
B. Jumbo frames
C. Clustering D. Round robin
E. TCP offloading

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 239
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 240
Which of the following storage network technologies has the HIGHEST throughput?

A. FCoE
B. InfiniBand
C. iSCSI
D. OC3

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 241
The corporate head office has assigned the subnet of 10.1.100.0/24 to a network technician. The technician wants to create subnets for the finance department, human resources, and IT. Given the following device counts:

Finance: 70 devices
Human resources: 38 devices
IT: 16 devices

Which of the following outlines how the technician should allocate the address space given?

A.

Finance: 10.1.100.0/21
Human resources: 10.1.100.128/22
IT: 10.1.100.192/23

Finance: 10.1.100.0/23
Human resources: 10.1.100.128/22
IT: 10.1.100.192/21

Finance: 10.1.100.0/25
Human resources: 10.1.100.128/26
IT: 10.1.100.192/27

Finance: 10.1.100.0/26
Human resources: 10.1.100.128/27
IT: 10.1.100.192/28

B.

C.

D.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 242
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 243
At which of the following layers of the OSI model does compression occur?

A. Session
B. Transport
C. Data link
D. Presentation

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 244
Ann, a user, reports that her desktop phone is not working on one cable. However, that cable provides connectivity to her laptop. A technician determines PoE is not provided to the end device. Which of the following is MOST likely the cause?

A. Transceiver mismatch
B. Crosstalk
C. Jitter
D. Open/short on the cable

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 245
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 246
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 247
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 248
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 249
The help desk is receiving reports of intermittent connections to a server. A help desk technician suspects the server is unable to establish a three-way handshake due to a DoS attack. Which of the following commands should a network administrator use to confirm the help desk technician's claim?

A. `nmap`

B. `arp`

C. `tcpdump`

D. `dig`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 250
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 251
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 252
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 253
A vendor is installing an Ethernet network in a new hospital wing. The cabling is primarily run above the celling grid near air conditioning ducts and sprinkler pipes. Which of the following cable types is required for this installation?

A. Plenum
B. PVC
C. Single-mode
D. Cat 7

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 254

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 255
Which of the following can be used to prevent unauthorized employees from entering restricted areas?

A. Sign-in sheets
B. Video cameras
C. Motion sensors
D. Swipe badges

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 256
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 257
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 258
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 259
Which of the following OSI layers do TCP and UDP operate within?

A. Data link
B. Network
C. Session
D. Transport
E. Presentation
F. Application

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 260
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 261

A network engineer is working on a network connectivity problem between a site in California and a site in New York. The connection went down overnight, and the engineer is unsure where the connection failed. The technician is logged into the primary switch in the customer's network, which is also the company's connection to the WAN.

Which of the following tools should the technician use to determine the last available network hop?

A. netstat
B. Nmap
C. traceroute
D. pathping

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 262

A network manager is concerned about visitors taking advantage of open cubicies at a company's facilities. Which of the following would mitigate this issue?

A. Create a VLAN for all unused switchports.
B. Implement a DMZ for all external services.
C. Implement root guard on all switches.
D. Create a honeypot to attract attackers.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 263

Which of the following is used to define the duration during which a client can use an IP address?

A. MAC reservation

B. IP helper
C. Pool
D. Lease time

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 264
A small company is requesting a quote to refresh its wireless network. The company currently runs 60 autonomous APs and has plans to increase wireless density by 50% in the near future. The requirements state that the chosen solution should significantly decrease the management overhead of the current wireless network.

Which of the following should the vendors recommend in response to the quote request?

A. The use of lightweight APs with a load balancer
B. The use of autonomous APs with a wireless controller
C. The use of autonomous APs with a load balancer
D. The use of lightweight APs with a wireless controller

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 265
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 266
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 267
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 268
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 269
A utility company has installed a wireless device at a residence that allows the company to view power consumption online. The resident reports the 802.11ac home wireless intermittently loses connectivity for about 15 minutes twice a day.

Which of the following is the MOST likely cause?

A. The utility company throttles power during peak hours.
B. There is additional data being transferred over the wireless network.
C. There is interference with the smart reader.
D. An IoT device is causing a DoS attack on the wireless network.

Correct Answer: B

Section: (none)
Explanation

Explanation/Reference:

QUESTION 270
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 converterD. Firewall

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 271
After several changes to the network, a technician needs to ensure a client is checking for new hostname and IP pairings. Which of the following commands should the technician use to force new lookups?

A. `ipconfig /flushdns`
B. `ipconfig /release`
C. `ipconfig /renew`

D. `ipconfig /all`

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 272
A network technician sets up a new schedule on the backup server. Management has informed the technician that a full backup does not need to be completed every day. The technician sets up weekly full backups. Which of the following should the technician configure for the remaining days to MINIMIZE the daily backup size?

A. Snapshots
B. Incremental
C. Replica
D. Differential

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 273
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 274
A network technician is designing a network cable upgrade in a newly acquired office space. The IT manager wants to install a standardized twisted pair cable solution that supports speeds up to 1 Gbps and terminates with a standard RJ45 connector. Which of the following cable types should the technician suggest?

A. SMF
B. Cat 3
C. Cat 5
D. Cat 6E. RG-6

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 275
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 276
A network technician receives the following command output from a Linux-based machine:

```
ABCDEG.com       430   IN   mx   mx1.ABCDEG.com
ABCDEG.com       5     IN   mx   mx2.ABCDEG.com
ABCDEG.com       430   IN   mx   mx10.ABCDEG.com
ABCDEG.com       521   IN   NS   ns1.ABCDEG.com
ABCDEG.com       521   IN   NS   ns3.ABCDEG.com
ABCDEG.com       521   IN   NS   ns2.ABCDEG.com
ABCDEG.com       521   IN   NS   ns4.ABCDEG.com
```

Which of the following commands did the network technician run?

A. `iptables –f ABCDEG.com`

B. `dig –t ANY ABCDEG.com`

C. `NMAP –t ABCDEG.com`

D. `netstat –a ACDEG.com`

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 277
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 278
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

Correct Answer: A
Section: (none)
Explanation

QUESTION 279
A network technician receives a switch that is configured to support VLANs on its ports. At which of the following layers is this switch operating?

A. Layer 1
B. Layer 2
C. Layer 3
D. Layer 4

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 280
Which of the following protocols is used to transport outgoing mail across networks?

A. POP
B. SMTP
C. IMAP
D. LDAP

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 281
Management at a company wants to increase the bandwidth available to users after receiving several complaints. A technician reports to management that 50% of the company bandwidth is being utilized by wireless devices outside the company's property. Given budget constraints, which of the following solutions should the technician propose to management?
A. Have the ISP double the bandwidth
B. Move from WPA2 to WEP
C. Enable WPA and change the SSID

D. Configure geofencing

Correct Answer: D
Section: (none)
Explanation

QUESTION 282
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

QUESTION 283
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 QUESTION
284**

A network engineer at a large company is restricting Internet browsing on the corporate WAN to only business-related external websites. Which of the following is the BEST solution to achieve this goal while avoiding the need to configure this restriction on each PC?

A. Web application firewall
B. Content filter
C. IPS
D. VPN concentrator

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 285
The process of searching for open or weakly secured wireless networks in a geographic area is known as:

A. phishing.
B. social engineering.
C. war driving.
D. an evil twin.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 286
A request is made to open an additional port on a firewall. The request is approved, and the port is opened. Which of the following BEST describes this process?

A. Standard operating procedure
B. Process management
C. Project management
D. Change management

Explanation/Reference:

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 287
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 288
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

Correct Answer: C
Section: (none)
Explanation QUESTION
289

A company hires some temporary workers. On day one, the temporary employees report they are unable to connect to the network. A network technician uses a packet analysis tool and finds that many clients are continuously sending out requests for an IP address, but many of them are not receiving a response. Which of the following could be the cause of this issue?

A. Exhausted DHCP scope
B. Untrusted SSL certificates
C. Duplicate MAC addresses
D. Incorrect firewall settings

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 290
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:

Explanation/Reference:

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