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IT Study Materials & Practical QAs

Part 1-------- Premium Exam Question

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QUESTION 1
A UTM is deployed on the external edge of the main corporate office. The office connects to the WAN port of the edge router. The edge router at the main office connects to the remote offices using GRE IPSec tunnels. A network administrator notices that a worm that was not detected by the UTM has spread from the remote sites into the corporate network. The UTM currently has traffic rules applied that should block the port used by the worm. Which of the following steps would MOST likely correct this issue?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2
A 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?

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 3
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:

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QUESTION 4
A network technician receives a call from a user in the accounting department stating that Internet connectivity has been lost after receiving a new workstation. No other users in accounting are reporting similar issues. The network technician is able to ping the machine from the accounting department's router, but is not able to ping the machine from the IT network. Which of the following is MOST likely the cause?

A. Incorrect default gateway
B. Duplicate IP address
C. Misconfigured OSPF
D. Improper VLAN assignment

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
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 6
A technician is installing a new wireless badging system on a hospital network. The requirements of the badging system are for it to have its own SSID and low power levels. The badging system has to cover 99.9% of the hospital. Which of the following is the BEST action to take to meet the system requirements?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7

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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 8
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 9
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 10
Which of the following would allow a device to maintain the same IP address lease based on the physical address of the network card?

A. MAC address reservation

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B. Static IP address
C. IP address exclusion
D. Custom DNS server entry

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11
A technician wants to prevent an unauthorized host from connecting to the network via Ethernet. Which of the following is a Layer 2 access control the technician should implement?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12
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 13
The server team has just installed an application across three different servers. They are asking that all requests to the application are spread evenly across the three servers. Which of the following should the network team implement to fulfil the request?

A. Proxy server
B. UTM appliance
C. Content filter
D. Load balancer

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Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
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 15
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 16
A network technician is troubleshooting wireless network issues in a crowded office complex and suspects there is interference from nearby wireless networks. Which of the following should the technician perform to discover possible interference?

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

Correct Answer: A
Section: (none)

IT Study Materials & Practical QAs

Explanation

Explanation/Reference:

QUESTION 17
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 18
A network technician has discovered a rogue access point 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 19
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:

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QUESTION 20
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 21
A network administrator configures a router with the following IP address information:
Gigabit Ethernet 1 Interface: 10.10.0.1/24
Serial 0 Interface: 10.10.0.253/30

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

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22
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:

IT Study Materials & Practical QAs

QUESTION 23
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 24
Which of the following security mechanisms dynamically assigns a Layer 2 address and restricts traffic only to that Layer 2 address?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 25
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 26
According to the OSI model, at which of the following layers is data encapsulated into a packet?

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

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D. Layer 5
E. Layer 6

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27
Which of the following WAN technologies is MOST preferred when developing a VoIP system with 23 concurrent channels?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28
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 29
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

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Explanation/Reference:

QUESTION 30
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 31
A network engineer is designing a new network for a remote site. The remote site consists of ten desktop computers, ten VoIP phones, and two network printers. In addition, two of the desktop computers at the remote site will be used by managers who should be on a separate network from the other eight computers. Which of the following represents the BEST configuration for the remote site?

A. One router connected to one 24-port switch configured with three VLANS: one for the manager's computers and printer, one for the other computers and printer, and one for the VoIP phones
B. Two routers with each router connected to a 12-port switch, with a firewall connected to the switch connected to the manager's desktop computers, VoIP phones, and printer
C. One router connected to one 12-port switch configured for the manager's computers, phones, and printer, and one 12-port switch configured for the other computers, VoIP phones, and printer
D. One router connected to one 24-port switch configured with two VLANS: one for the manager's computers, VoIP phones, and printer, and one for the other computers, VoIP phones, and printer

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 32
A network technician is troubleshooting an end-user connectivity problem. The network technician goes to the appropriate IDF but is unable to identify the appropriate cable due to poor labeling. Which of the following should the network technician use to help identify the appropriate cable?

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A. Tone generator
B. Multimeter
C. OTDR
D. Loopback adapter

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 33
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 34
A network technician is considering opening ports on the firewall for an upcoming VoIP PBX implementation. Which of the following protocols is the technician MOST likely to consider? (Choose three.)

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

Correct Answer: ACF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 35
A device operating at Layer 3 of the OSI model uses which of the following protocols to determine the path to a different network?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36
A network administrator is setting up a web-based application that needs to be continually accessible to the end users. Which of the following concepts would BEST ensure this requirement?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 37
Which of the following devices should a network administrator configure on the outermost part of the network?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 38
A company finds that many desktops are being reported as missing or lost. Which of the following would BEST assist in recovering these devices?

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

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Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 39
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 40
A technician is diagnosing an issue with a new T1 connection. The router is configured, the cable is connected, but the T1 is down. To verify the configuration of the router, which of the following tools should the technician use?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 41
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

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Explanation/Reference:

QUESTION 42
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 43
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 44
A network engineer wants to a segment the network into multiple broadcast domains. Which of the following devices would allow for communication between the segments?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 45

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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 46
A network technician is assisting the security team with some traffic captures. The security team wants to capture all traffic on a single subnet between the router and the core switch. To do so, the team must ensure there is only a single collision and broadcast domain between the router and the switch from which they will collect traffic. Which of the following should the technician install to BEST meet the goal?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 47
Based on networks 10.8.16.0/22 and 10.8.31.0/21, which of the following is the BEST summarized CIDR notation?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 48
A technician discovers that multiple switches require a major update. Which of the following policies should be followed?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 49
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 50
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 51
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

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D. DNS record type

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 52
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 53
A technician logs onto a system using Telnet because SSH is unavailable. SSH is enabled on the target device, and access is allowed from all subnets. The technician discovers a critical step was missed. Which of the following would allow SSH to function properly?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 54
A network administrator wants to ensure sensitive data is not exfiltrated from the system electronically. Which of the following should be implemented?

A. DLP
B. AUP
C. NDA
D. SLA

Correct Answer: A
Section: (none)
Explanation

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Explanation/Reference:

QUESTION 55
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 domain that exist?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 56
A network technician wants to remotely and securely access the desktop of a Linux workstation. The desktop is running remote control software without encryption. Which of the following should the technician use to secure the connection?

A. SSH in tunnel mode
B. RDP set to console connection
C. EAP-PEAP
D. SFTP

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 57
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 58

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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 59
After a server outage, a technician discovers that a physically damaged fiber cable appears to be the problem. After replacing the cable, the server will still not connect to the network. Upon inspecting the cable at the server end, the technician discovers light can be seen through one of the two fiber strands. Which of the following should the technician do FIRST to reconnect the server to the network?

A. Reverse the fiber strands of the cable and reconnect them to the server
B. Use a TDR to test both strands of a new replacement cable prior to connecting it to the server
C. Replace the server's single-mode fiber cable with multimode fiber
D. Move the fiber cable to different port on the switch where both strands function

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 60
The backups 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 61

IT Study Materials & Practical QAs

A technician is trying to determine the IP address of a customer's router. The customer has an IP address of 192.168.1.55/24. Which of the following is the address of the customer's router?

A. 192.168.0.55
B. 192.168.1.0
C. 192.168.1.1
D. 192.168.5.5
E. 255.255.255.0

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 62
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 63
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 64
Which of the following is the correct port number for NTP?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 65
A network technician is connecting two switches together. Which of the following protocols should the technician use to increase speed and fault tolerance?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 66
A company has a web-based application that is used by many different departments. The company has experienced some overload of resources on the database server. The network administrator implements a network device in between the servers and the database. Which of the following BEST describes the purpose of this device?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 67
A technician is replacing a switch at a branch office and discovers the existing backbone cable does not fit in the new switch. The fiber patch panel has circular connections. The new switch has a transceiver that accepts a smaller square adapter of two strands. Which of the following patch cables would the technician need to complete the installation?

A. LC to SC
B. SC to ST

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C. LC to ST
D. ST to ST
E. SC to SC

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 68
A computer lab on a campus network was recently reconfigured using recycled network cables. One of the 24 computers in the lab is unable to connect to the network after the upgrade. A network technician successfully uses the cable in question to connect directly to another computer. Which of the following is MOST likely issue with the cable?

A. The cable is a crossover cable
B. The cable is rollover cable
C. The cable has bent pins
D. The cable is a Cat 5 cable

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 69
Which of the following is a reason why a business may be hesitant to move sensitive data to a SaaS cloud service?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 70
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

IT Study Materials & Practical QAs

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 71
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 72
A technician is setting up a branch office on a point-to-point connection. Which of the following IP network blocks is the MOST efficient use of IP address space for the router connections between the two sites?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 73
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)

IT Study Materials & Practical QAs

Explanation

Explanation/Reference:

QUESTION 74
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 75
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 76
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:

IT Study Materials & Practical QAs

QUESTION 77
An ISP technician gets a call from a business that just changed equipment but can no longer connect to the Internet. The technician checks the ARP table on the ISP switch, and there is no corresponding MAC address present. Instead, the entry is “Incomplete”. Which of the following could cause this condition?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 78
A systems administrator has recently purchased and installed a large electronic signage screen for the company’s parking garage. The screen’s management software was installed on a server with public IP address to allow remote management. The systems administrator is now troubleshooting an issue with the screen displaying unknown, random, and inappropriate messages. Which of the following is MOST effective in resolving this issue?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 79
A technician is investigating a server performance issue. The technician has gathered the server utilization statistics. Which of the following should the technician use to determine which statistics are not in the normal range?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 80
Which of the following devices, if implemented, would result in decreased administration time of an 802.11

IT Study Materials & Practical QAs

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 81
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 82
An administrator is moving to a new office. There will be several network runs through the ceiling area of the office. Which of the following is the BEST to utilize in these areas?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 83
A network technician receives a spool of Cat 6a cable and is asked to build several cables for a new set of Ethernet runs between devices. Which of the following tools are MOST likely needed to complete the task? (Choose three.)

A. Wire stripper

IT Study Materials & Practical QAs

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

Correct Answer: ABD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 84
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 85
A telecommunications provider has just deployed a new OC-12 circuit at a customer site. While the circuit showed no errors from the provider end to the customer's demarcation point, a network administrator is trying to determine the cause of dropped packets and errors on the circuit. Which of the following should the network administrator do to rule out any problems at Layer 1? (Choose two.)

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

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 86
A single PRI can deliver multiple voice calls simultaneously using which of the following Layer 1

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

technologies?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 87
A network technician is diagnosing a time-out issue generated from an end user's web browser. The web browser issues standard HTTP get and post commands to interact with the website. Given this information, the technician would like to analyze the entire TCP handshake of the HTTP requests offline. Which of the following tools would allow the technician to view the handshake?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 88
A customer cannot access a company's secure website. The company's network security is reviewing the firewall for the server and finds the following output:

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

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

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

IT Study Materials & Practical QAs

QUESTION 89
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 90
An engineer is reviewing the implementation requirements for an upcoming project. The basic requirements identified by the customer include the following:
WLAN architecture supporting speeds in excess of 150 Mbps
Clientless remote network access
Port-based network access control

Which of the following solution sets properly addresses all of the identified requirements?

A. 802.11a, IPSec VPN, 802.1x
B. 802.11ac, MPLS, 802.3
C. 802.11b, PPTP, 802.1x
D. 802.11g, MS-CHAP, 802.16
E. 802.11n, SSL-VPN, 802.1x

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 91
Which of the following is used to classify network data for the purpose of providing QoS?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

QUESTION 92
A network technician needs to separate a web server listening on port 80 from the internal LAN and secure the server from the public Internet. The web server should be accessible to the public Internet over port 80 but not the private LAN. Currently, the network is segmented with a network-based firewall using the following IP addressing scheme on each interface:

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

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

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 93
A company recently upgraded all of its printers to networked multifunction devices. Users can print to the new devices, but they would also like the ability to scan and fax files from their computers. Which of the following should the technician update to allow this functionality?

A. Device software
B. Printer drivers
C. Printer firmware
D. NIC drivers

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 94
A disgruntled employee executes a man-in-the-middle attack on the company network. Layer 2 traffic destined for the gateway is redirected to the employee's computer. This type of attack is an example of:

IT Study Materials & Practical QAs

A. ARP cache poisoning
B. IP spoofing
C. amplified DNS attack
D. evil twin

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 95
The process of attempting to exploit a weakness in a network after being given permission by the company is known as:

A. penetration testing
B. vulnerability scanning
C. reconnaissance
D. social engineering

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 96
A company has contracted with an outside vendor to perform a service that will provide hardware, software, and procedures in case of a catastrophic failure of the primary datacenter. The Chief Information Officer (CIO) is concerned because this contract does not include a long-term strategy for extended outages. Which of the following should the CIO complete?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 97
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

IT Study Materials & Practical QAs

E. Peer-peer
F. Ring

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 98
A network administrator has a monitoring system in place that is currently polling hundreds of network devices at regular intervals. The continuous polling is causing high CPU utilization on the server. Which of the following tasks should the administrator perform to resolve the CPU issue while maintaining full monitoring capabilities?

A. Remove SNMP polling and configure SNMP traps on each network device
B. Remove SNMP polling and implement `snmpwalk` on each network device
C. Upgrade SNMP to the latest version to mitigate vulnerabilities
D. Modify SNMP polling to poll only during business hours

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 99
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 100
Users are reporting their network is extremely slow. The technician discovers pings to external host have excessive response times. However, internal pings to printers and other PCs have acceptable response times. Which of the following steps should the technician take NEXT?

A. Determine if any network equipment was replaced recently
B. Verify malware has not disabled the users' PC firewalls

IT Study Materials & Practical QAs

C. Replace users' network cables with known-good network cables
D. Power cycle the web server

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 101
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 102
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 103
The IT manager at a small firm is in the process of renegotiating an SLA with the organization's ISP. As part of the agreement, the organization will agree to a dynamic bandwidth plan to provide 150Mbps of bandwidth. However, if the ISP determines that a host on the organization's internal network produces malicious traffic, the ISP reserves the right to reduce available bandwidth to 1.5 Mbps. Which of the following policies is being agreed to in the SLA?

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

IT Study Materials & Practical QAs

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 104
A network technician has just configured NAC for connections using Cat 6 cables. However, none of the Windows clients can connect to the network.
Which of the following components should the technician check on the Windows workstations? (Choose two.)

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

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 105
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 106
A building is equipped with light sensors that turn off the fluorescent lights when natural light is above a certain brightness. Users report experiencing network connection issues only during certain hours. The west side of the building experiences connectivity issues in the morning hours and the east side near the end of the day. At night the connectivity issues affect the entire building. Which of the following could be the cause of the connectivity issues?

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

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Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 107
A network technician configures a firewall's ACL to allow outgoing traffic for several popular services such as email and web browsing. However, after the firewall's deployment, users are still unable to retrieve their emails. Which of the following would BEST resolve this issue?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 108
A network security technician observes multiple attempts to scan network hosts and devices. All the attempts originate from a single host on the network. Which of the following threats is MOST likely involved?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 109
Which of the following would be the MOST efficient subnet mask for a point-to-point link?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

IT Study Materials & Practical QAs

QUESTION 110
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 111
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 112
Which of the following wireless connection types utilize MIMO on non-overlapping channels? (Choose two.)

IT Study Materials & Practical QAs
IT Study Materials & Practical QAs

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

Correct Answer: BE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 113
A network technician is creating a new subnet for 488 host machines. The technician is told to use a class B address scheme when making the subnet and is instructed to leave as much room as possible for additional subnets of the same size. Which of the following subnets would fulfill these requirements?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 114
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 115
Which of the following DNS records needs to be configured for SMTP traffic?

A. MX
B. CNAME

IT Study Materials & Practical QAs

C. AAAA
D. PTR

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 116
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 117
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 118
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

IT Study Materials & Practical QAs

Explanation/Reference:

QUESTION 119
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 120
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 121
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:

IT Study Materials & Practical QAs

QUESTION 122
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 123
Which of the following protocols can be both connection-oriented and connectionless?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 124
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 125
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

IT Study Materials & Practical QAs

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 126
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 127
A user reports that a laptop cannot connect to the Internet despite the fact the wireless Internet was functioning on it yesterday. The user did not modify the laptop in any way, and the wireless Internet is functional on other users' laptops. Which of the following issues should be reviewed to help the user to connect to the wireless network?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

IT Study Materials & Practical QAs

QUESTION 128
A network administrator wants to increase the confidentiality of the system by hardening the authentication process. Currently, the users log in using usernames and passwords to access the system. Which of the following will increase the authentication factor to three?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 129
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 130
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 131
Which of the following VPN protocols establishes a secure session that can be initiated using a browser?

IT Study Materials & Practical QAs

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 132
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 133
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 134
A network technician is installing a new network switch is looking for an appropriate fiber optic patch cable. The fiber optic patch panel uses a twist-style connector. The switch uses a SFP module. Which of the following connector types should the fiber patch cable have?

A. LC
B. ST

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C. SC
D. MTRJ
E. MTP

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 135
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 136
A network administrator wishes to ensure there are no unnecessary open communication paths into a server. Using a port scanner, the administrator finds that ports are reported as closed. Which of the following BEST explains this response?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 137
Users are reporting issues with slow connection speeds and a loss of connectivity on the newly installed wireless network. The issues are intermittent but seem to occur most often around midday. Which of the following is the MOST likely cause?

A. There is interference from small appliances
B. The signal coverage area is too small
C. Not enough DHCP addresses have been allotted
D. The DNS cache on the users' computers has become corrupt

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Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 138
A user reports difficulties connecting a PC to a wired network. The PC connects to an IP phone, which is working correctly. A network technician can verify that other devices successfully connect to the phone. At which of the following layers of the OSI model is the problem MOST likely located?

A. Network
B. Physical
C. Transport
D. Application

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 139
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 140
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

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C. Switch 1
D. Switch 2

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 141
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 142
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 143
A network administrator is testing connectivity at a new corporate site. The site has a wireless guest as well as a wired employee network. After verifying connectivity, the administrator checks link speeds by using a speed testing website. The speed testing website shows lower download and upload speeds for the wired network than the wireless network. Which of the following is the MOST likely explanation?

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A. There is less local congestion on the wireless network
B. The testing server for the wired network was farther away
C. The firewall is configured to throttle traffic to specific websites
D. The wireless access points were misconfigured

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 144
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 145
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 146
SIMULATION

Your company recently purchased a new building down the street from the existing office. For each of the tasks below, select the appropriate antenna type and encryption object for all wireless access point (AP).

1. Create an encrypted wireless connection between the two buildings that BEST controls signal propagation,

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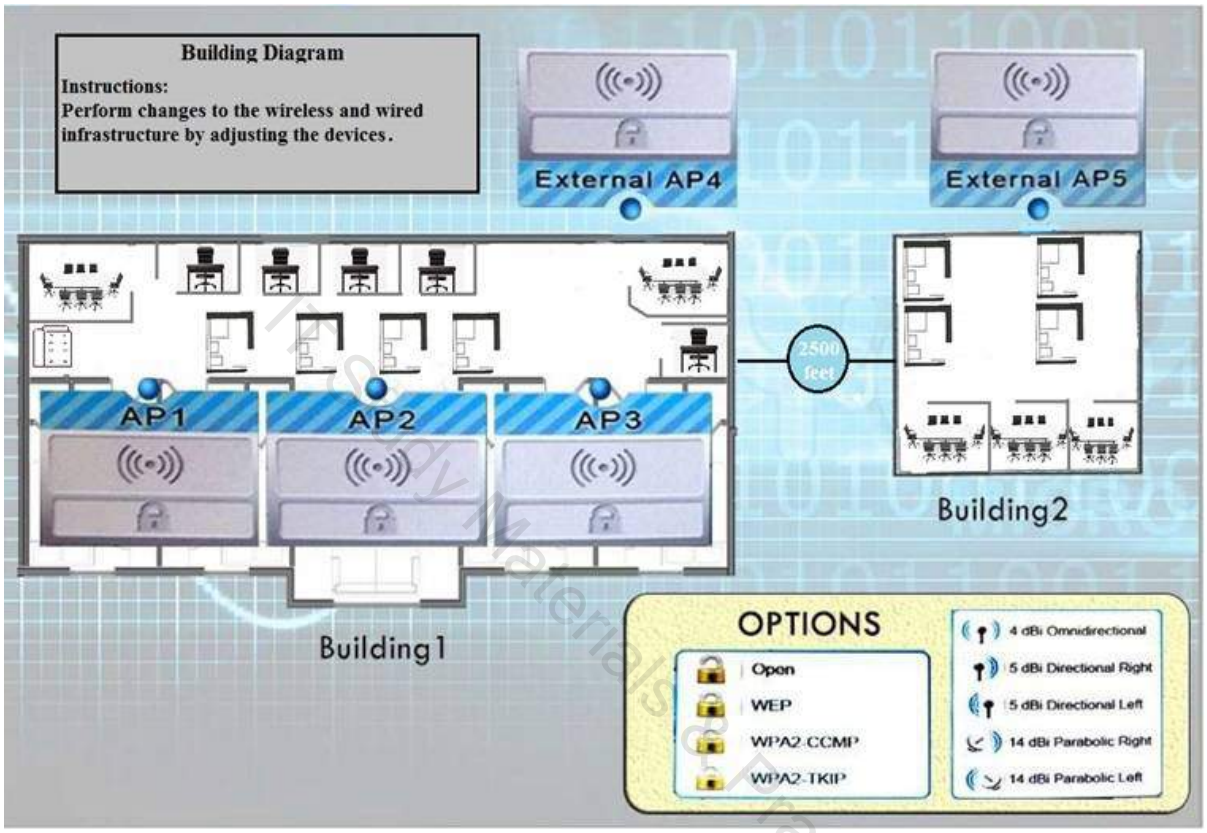
while maximizing security.
2. Restrict the wireless signal generated by the access points (APs) inside Building 1, so that it minimizes broadcast beyond the building.
3. Maximize wireless coverage inside Building 1.
4. Building 1's internal wireless network is for visitors only and must not require any special configuration on the visitor's device to connect.



Instructions: When you have completed the simulation, select the Done button to submit.

Correct Answer: See explanation below.
Section: (none)
Explanation

Explanation/Reference:
Explanation:

IT Study Materials & Practical QAs
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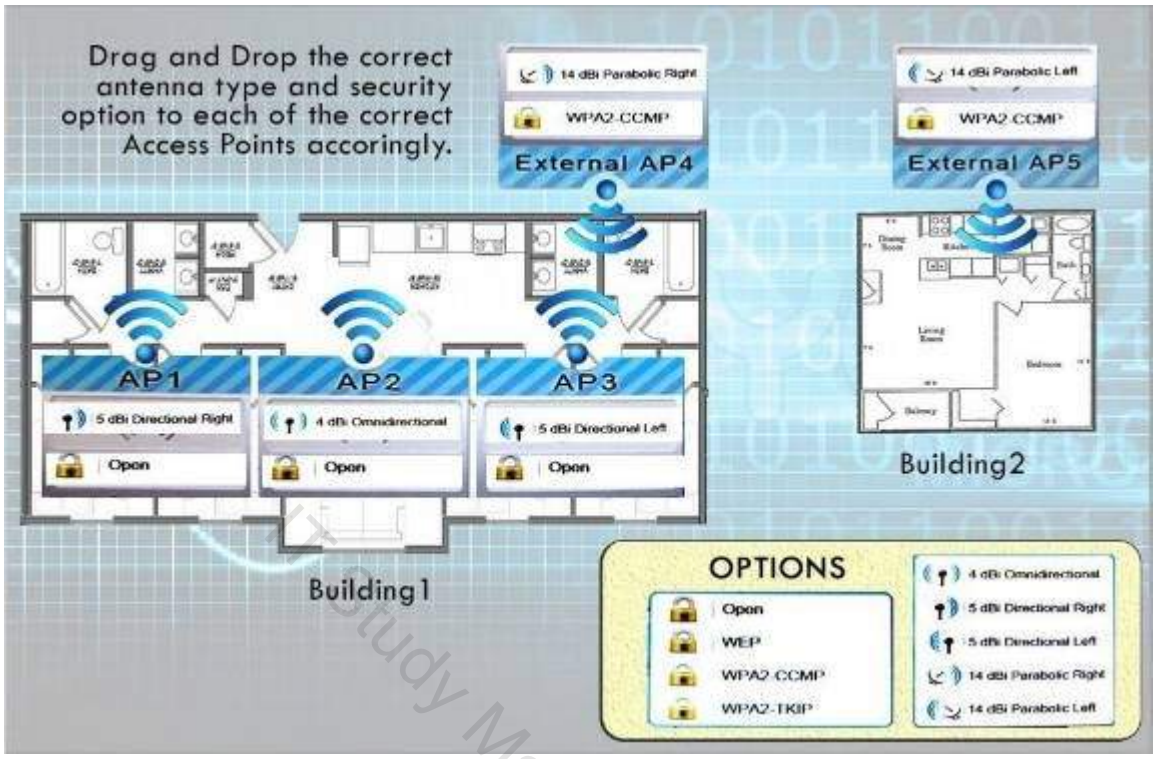

QUESTION 147
A technician has installed a Linux server in the tax office. The server can access most of the resources on the network, but it cannot connect to another server that has a share for backup. The technician learns that the target server is on a different subnet. Which of the following tools should the technician use to ensure the Linux server can reach the backup location?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 148
Which of the following WAN technologies provides a guaranteed throughput rate?

A. DSL
B. T-1
C. Cable broadband
D. Dial-up

Correct Answer: B
Section: (none)
Explanation

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IT Study Materials & Practical QAs

Explanation/Reference:

QUESTION 149
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 150
A network administrator needs to transmit traffic to geographically diverse sites to improve performance. Which of the following devices would BEST direct traffic to the remote sites?

A. Hub
B. Bridge
C. Switch
D. Router

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 151
Which of the following should a technician investigate when using a network baseline to troubleshoot?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 152
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?

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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 153
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 154
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 155
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

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Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 156
Employees want the ability to use personal devices on the guest network while working out at the company gym. In order to meet the request, which of the following policies requires employee adherence?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 157
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 158
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

IT Study Materials & Practical QAs

Explanation/Reference:

QUESTION 159
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

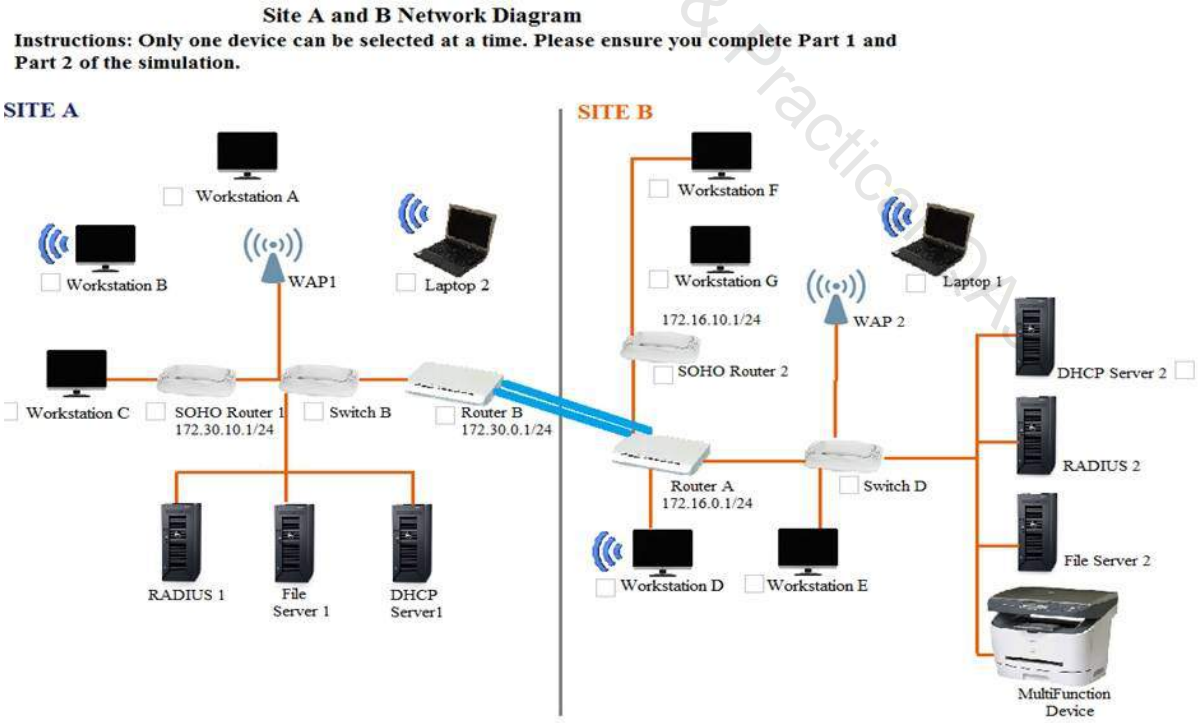
Review the settings and select the box in the diagram that identifies the device causing the issue. Only one device can be selected at a time.

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



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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

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IT Study Materials & Practical QAs

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

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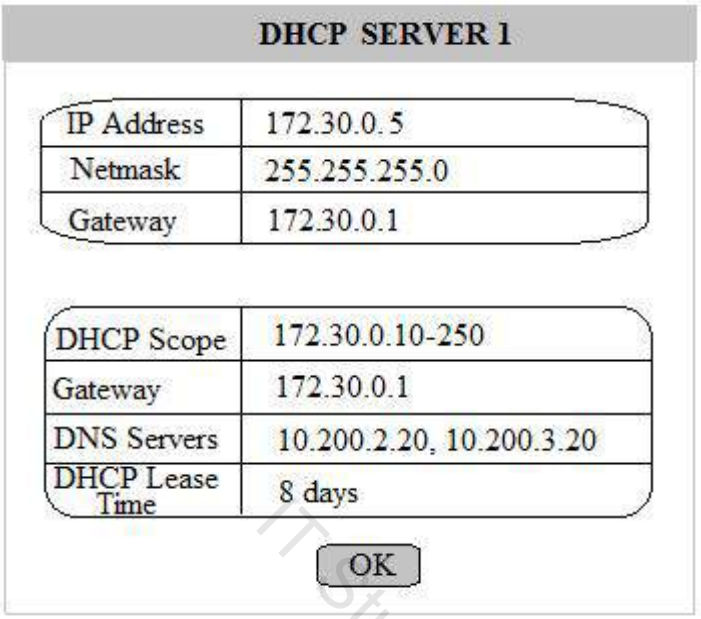
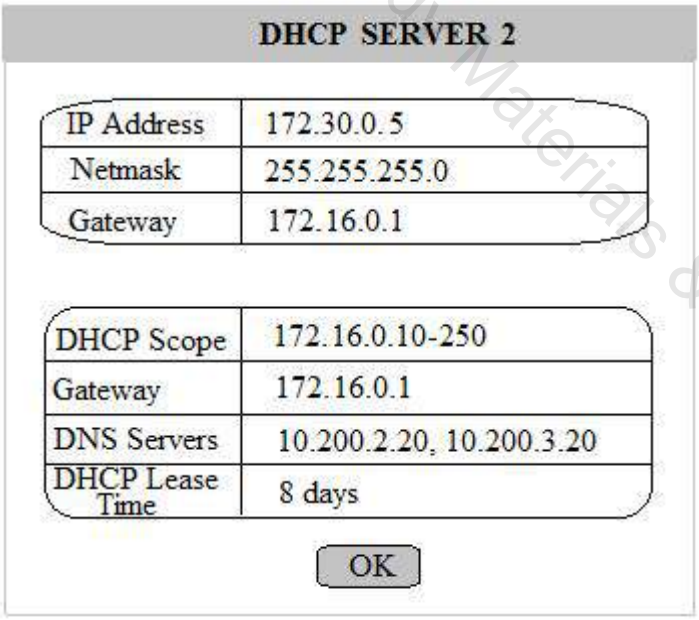
IT Study Materials & Practical QAs





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Part 2

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

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

Correct Answer: G

Section: (none)
Explanation

Explanation/Reference:

QUESTION 160
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 161
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 162
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:

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QUESTION 163
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 164
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 165
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.

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```
$ 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 166
A network technician at a small office upgrades the LAN switch. After the upgrade, a user reports being unable to access network resources. When the technician checks the switchport, the LED light is not lit. Which of the following should the technician check FIRST?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 167
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?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 168
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 169
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 170
Which of the following networking devices operates at Layer1?

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

Correct Answer: C

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IT Study Materials & Practical QAs

Section: (none)
Explanation

Explanation/Reference:

QUESTION 171
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 172
A network technician needs to set up an access method for Ann, a manager, to work from home. Ann needs to locally mapped corporate resources to perform her job. Which of the following would provide secure access to the corporate resources?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 173
Which of the following DNS record types is an alias?

A. CNAME
B. PTR
C. NS
D. SRV

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

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QUESTION 174
A recently constructed building makes use of glass and natural light. Users in the building are reporting poor cellular connectivity and speeds. Which of the following is MOST likely the cause?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 175
A network technician is working on a new switch implementation to expand the network. Which of the following is the BEST option to ensure the implementation goes according to business requirements?

A. AUP
B. NDA
C. SOP
D. SLA

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 176
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 177
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

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D. Router to modem
E. PC to PC

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 178
802.11n clients currently have no way to connect to the network. Which of the following devices should be implemented to let the clients connect?

A. Router
B. Range extender
C. VoIP endpoint
D. Access point

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 179
A network technician is setting up a new router. Since it is exposed to the public, which of the following are the BEST steps the technician should take when setting up this device? (Choose two.)

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

Correct Answer: AF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 180
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

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Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 181
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 182
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 183
The Chief Executive Officer's (CEO's) tablet cannot connect to the wireless network from the corner office. A network technician verified the tablet can connect to the wireless network in other areas of the building. The distance between the office and the 802.11ac WAP is 150ft (46m), and there are a few cubicles in between. Which of the following is the MOST likely cause of the tablet not connecting?

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

Correct Answer: C
Section: (none)
Explanation

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Explanation/Reference:

QUESTION 184
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 185
A technician is working on a new machine that has been procured for testing and development. The machine will run a hypervisor and host several operating systems of various types so the development team can test the company's applications in a variety of environments. The technician wants the virtual machines to be available to communicate with each other without leaving the hypervisor. Which of the following is the BEST solution to the problem?

A. The technician should connect the machine to its own separate switch.
B. The technician should add a route in each virtual machine to the default gateway.
C. The technician should configure a virtual switch.
D. The technician should set up individual routes between the machines.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 186
A network technician is repurposing a switch that has been in storage for some time. The device has been wiped to factory defaults. Which of the following should be done FIRST to ensure the device has been hardened before configuration?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

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QUESTION 187
A technician is setting up a wireless access point in a coffee shop. The shop is not concerned with security but only wants to allow customers to have access. Which of the following configurations should the technician deploy?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 188
A network administrator is assigned to run and connect a Cat 6e Ethernet cable between two nodes in a datacenter. Which of the following connector types should the network administrator use to terminate this cable?

A. DB-9
B. RS-232
C. DB-25
D. RJ-45

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 189
Management has requested that services be available within 72 hours of a disaster. Budget is a major concern. A contract is signed with a company that has plenty of space, and the technician will have the option of putting infrastructure equipment in place. Which of the following BEST describes this business continuity strategy?

A. Cold site
B. Differential backup
C. Hot site
D. Incremental backup
E. Warm site
F. Full backup

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

IT Study Materials & Practical QAs

QUESTION 190
A network technician is planning to update the firmware on a router on the network. The technician has downloaded the file from the vendor's website. Before installing the firmware update, which of the following steps should the technician perform to ensure file integrity?

A. Perform antivirus and anti-malware scans of the file.
B. Perform a hash on the file for comparison with the vendor's hash.
C. Download the file a second time and compare the version numbers.
D. Compare the hash of the file to the previous firmware update.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 191
A network technician performs a wireless site survey at a company building and identifies that the cafeteria is not covered by a wireless signal. The cafeteria is located in a medium-size, square-shaped room. Which of the following types of WAP antenna should the technician install in the center of the cafeteria to provide the BEST coverage?

A. Unidirectional
B. Parabolic
C. Omnidirectional
D. Yagi

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 192
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 193
At which of the following OSI model layers would a router operate?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 194
Which of the following are DNS record types? (Choose three.)

A. CNAME
B. NTP
C. PTR
D. LDAP
E. DHCP
F. TTL
G. SRV
H. SSH

Correct Answer: ACG
Section: (none)
Explanation

Explanation/Reference:

QUESTION 195
Which of the following backup techniques is used to capture all the data that has changed since the last full backup?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 196
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

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B. MDF documentation
C. Equipment labeling
D. Standard operating procedures

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 197
A technician is observing brownout issues at a smaller office. At least once a week, the edge switch power cycles. Which of the following should the technician do to resolve the issue?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 198
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 199
Under which of the following layers of the OSI model do ATM cells operate?

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

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Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 200
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 converter
D. PRP wireless

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 201
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 202
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)

IT Study Materials & Practical QAs

Explanation

Explanation/Reference:

QUESTION 203
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 204
Which of the following DNS record types allows IPv6 records to be resolved to DNS names?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 205
A network technician has recently installed new VoIP phones at all employee's desks to support a new SIP cloud VoIP solution. However, the technician is unable to make a call from the device after testing. Which of the following should the technician verify? (Choose two.)

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

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

IT Study Materials & Practical QAs

QUESTION 206
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 207
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 208
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 209
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?

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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 210
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 211
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 212
A network administrator gets a call regarding intermittent network outages across the country. Which of the following should be used to connect to the network so the administrator can troubleshoot this issue from home? (Choose two.)

A. FTP
B. SMTP

IT Study Materials & Practical QAs

C. VPN
D. SSH
E. SNMP

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 213
A network technician downloaded new firmware for the company firewall. Which of the following should the network technician verify to ensure the downloaded file is correct and complete?

A. File hash
B. File date
C. File type
D. File size

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 214
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 215
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. MPLS

IT Study Materials & Practical QAs

D. OSPF

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 216
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 217
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 218
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)

IT Study Materials & Practical QAs

Explanation

Explanation/Reference:

QUESTION 219
A technician is setting up VoIP phones on a wireless network. Users report that calls are choppy and sometimes dropped. The technician has measured two characteristics using simple command-line tools that verify the problem. Which of the following characteristics did the technician measure? (Choose two.)

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

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 220
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 221
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.

IT Study Materials & Practical QAs

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 222
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 223
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 224
A company has just refreshed the hardware in its datacenter with new 10G Ethernet switches. A technician wishes to set up a new storage area network but must use existing infrastructure. Which of the following storage standards should the technician use?

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

Correct Answer: C
Section: (none)

IT Study Materials & Practical QAs

Explanation

Explanation/Reference:

QUESTION 225
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 226
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 227
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

IT Study Materials & Practical QAs

Explanation/Reference:

QUESTION 228
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 229
A network technician recently installed a new server on a network. The technician must ensure the server does not have any unnecessary services running. The IP address of the server is 204.211.38.50. Which of the following commands would allow the technician to make this determination?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 230
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 231
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

IT Study Materials & Practical QAs

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: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 232
An administrator is troubleshooting a user's intermittent wireless connectivity issue. Other users across the hallway can connect and use the wireless network properly. Upon inspection of the connection details, the administrator finds the following:

SSID	Company-WiFi
Signal	5%
SNR	2

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

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 233
A VoIP system will require 23 concurrent voice channels and one signaling channel. Which of the following types of WAN service would provide the BEST connectivity to the PSTN?

A. PRI
B. BRI
C. E1/E3
D. DSL

Correct Answer: A
Section: (none)
Explanation

IT Study Materials & Practical QAs

Explanation/Reference:

QUESTION 234
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 235
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 236
Which of the following is networking stand-alone hardware that will permit any WiFi-compliant device to connect to a wired network?

A. Wireless hub
B. Wireless firewall
C. Wireless access point
D. Wireless bridge

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 237
Which of the following devices are MOST often responsible for 802.1q tagging? (Choose two.)

IT Study Materials & Practical QAs

A. Switch
B. Router
C. IDS
D. Hub
E. IPS
F. Network tap

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 238
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 239
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 240
A content filter is set to analyze XML and JSON that users access from the Internet. At which of the following layers is this analysis taking place?

IT Study Materials & Practical QAs

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

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 241
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 242
A technician is configuring a printer for a client. The technician connects the printer to the network, but is unsure how to determine its switchport. Which of the following should the technician do FIRST to locate the switchport?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 243
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

IT Study Materials & Practical QAs

B. Bandwidth
C. Speed
D. Hop count

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 244
A second router was installed on a network to be used as a backup for the primary router that works as a gateway. The infrastructure team does not want to change the IP address of the gateway on the devices. Which of the following network components should be used in this scenario?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 245
Which of the following can be done to implement network device hardening? (Choose two.)

A. Implement spanning tree
B. Perform VLAN hopping
C. Patch and update
D. Perform backups
E. Enable port mirroring
F. Change default admin password

Correct Answer: CF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 246
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.

IT Study Materials & Practical QAs

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 247
A technician has been alerted of incoming HTTP traffic on the LAN segment that should not contain any web servers. The technician has the IP address of the destination host and wants to determine if the socket for HTTP is open. Which of the following should the technician perform?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 248
Which of the following creates a secure remote connection at the OSI network layer?

A. L2TP
B. SSL
C. DTLS
D. IPSec

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 249
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:

IT Study Materials & Practical QAs

QUESTION 250
A company decides to deploy customer-facing, touch-screen kiosks. The kiosks appear to have several open source service ports that could potentially become compromised. Which of the following is the MOST effective way to protect the kiosks?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 251
While working on a Linux-based OS, a technician experiences an issue accessing some servers and some sites by name. Which of the following command-line tools should the technician use to assist in troubleshooting?

A. dig
B. iptables
C. ifconfig
D. traceroute

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 252
A network administrator has had difficulty keeping track of IP address assignments on networking devices and clients recently. Which of the following is the BEST technology to aid in this scenario?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 253
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.)

IT Study Materials & Practical QAs

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 254
A technician is connecting a PC to a switchport. At the wiring closet, the technician is unable to identify which cable goes from patch panel A connected to the switch to patch panel B connected to the PC. Which of the following tools should the technician use to resolve the issue?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 255
A technician wants to deploy a network that will require wireless client devices to prompt for a username and password before granting access to the wireless network. Which of the following must be configured to implement this solution?

A. EAP-PEAP
B. CCMP-AES
C. WPA2-PSK
D. TKIP-RC4

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 256
Which of the following protocols are classified as connectionless? (Choose two.)

A. TFTP

IT Study Materials & Practical QAs

B. FTP
C. HTTP
D. SNMP
E. SSH
F. IMAP

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 257
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 258
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 259
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

IT Study Materials & Practical QAs

C. Password
D. Fingerprint

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 260
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 261
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 262
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)

IT Study Materials & Practical QAs

Explanation

Explanation/Reference:

QUESTION 263
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 264
A technician has installed an older IP camera as a temporary replacement for a recently failed newer one. The technician notices that when the camera's video stream is off, the ping roundtrip time between the camera and the network DVR is consistently less than 1ms without dropped packets. When the camera video stream is turned on, the ping roundtrip time increases dramatically, and network communication is slow and inconsistent. Which of the following is MOST likely the issue in this scenario?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 265
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:

IT Study Materials & Practical QAs

QUESTION 266
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 267
A network technician installs a web server on the firewall. Which of the following methods should the technician implement to allow access to outside users without giving access to the inside network?

A. VLAN
B. DMZ
C. SNMP
D. NTP

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 268
A Chief Information Officer (CIO) tasks the network engineer with protecting the network from outside attacks. Placing which of the following devices on the network perimeter would provide the MOST security for the system?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 269
Management has requested that a wireless solution be installed at a new office. Which of the following is the FIRST thing the network technician should do?

A. Order equipment

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B. Create network diagrams
C. Perform a site survey
D. Create an SSID.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 270
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 271
Greater bandwidth and availability are required between two switches. Each switch has multiple 100Mb Ethernet ports available. Which of the following should a technician implement to help achieve these requirements?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 272
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

IT Study Materials & Practical QAs

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 273
Ann, a customer, recently upgraded her SOHO Internet to gigabit fiber from cable. She was previously getting speeds around 75Mbps down and 25Mbps up. After the upgrade, Ann runs a speed test on her desktop and gets results of 1000Mbps down and 100Mbps up. A technician connects directly to the router and sees the correct 1000Mbps speeds. Which of the following is MOST likely the cause? (Select two).

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

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 274
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 275
Which of the following protocols is associated with a three-way handshake?

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

Correct Answer: D

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

Section: (none)
Explanation

Explanation/Reference:

QUESTION 276
Which of the following would a company place at the edge of its network if it wants to view and control which Internet applications are being used?

A. VPN concentrator
B. NGFW
C. IDS/IPS
D. Proxy server

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 277
A technician wants to physically connect two office buildings' networks. The office buildings are located 600ft (183m) apart. Which of the following cable types is the BEST choice?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 278
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:

IT Study Materials & Practical QAs

QUESTION 279
DRAG DROP

You are tasked with creating a network that will accomplish the following requirements.

Requirements:
The remote Sales Team must be able to connect to the corporate network.
Each department must have ONLY two PCs and a server.
Eqach department must be segmented from each other.
The following VLANs have been designed:
- VLAN 2 – Finance
- VLAN 12 – Sales
- VLAN 22 – Human Resources (HR)

Routing for VLAN 12 is implemented on the router. Routing for VLAN 2 and VLAN 22 is on the switch.

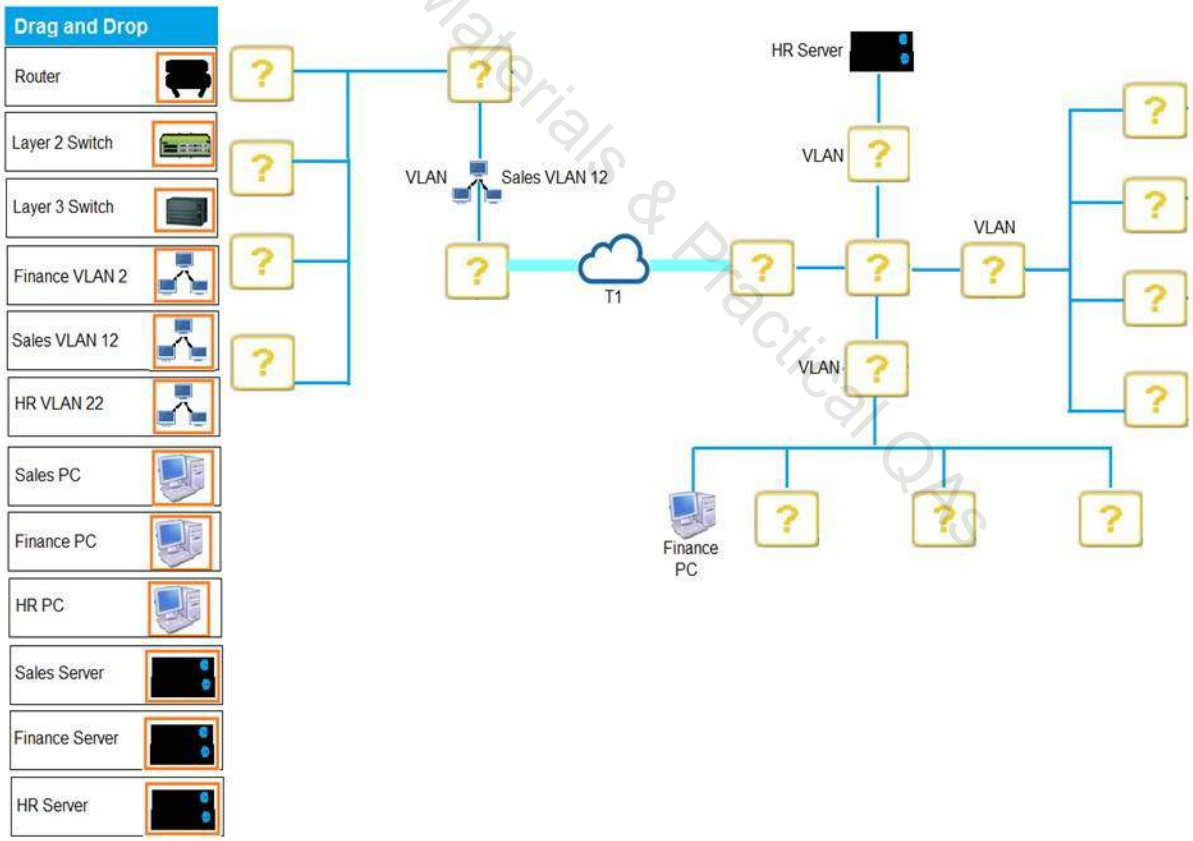
Instructions

Complete the network by dragging the required objects onto the diagram.

Objects can be used multiple times and not all placeholders need to be filled.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Select and Place:



Correct Answer:

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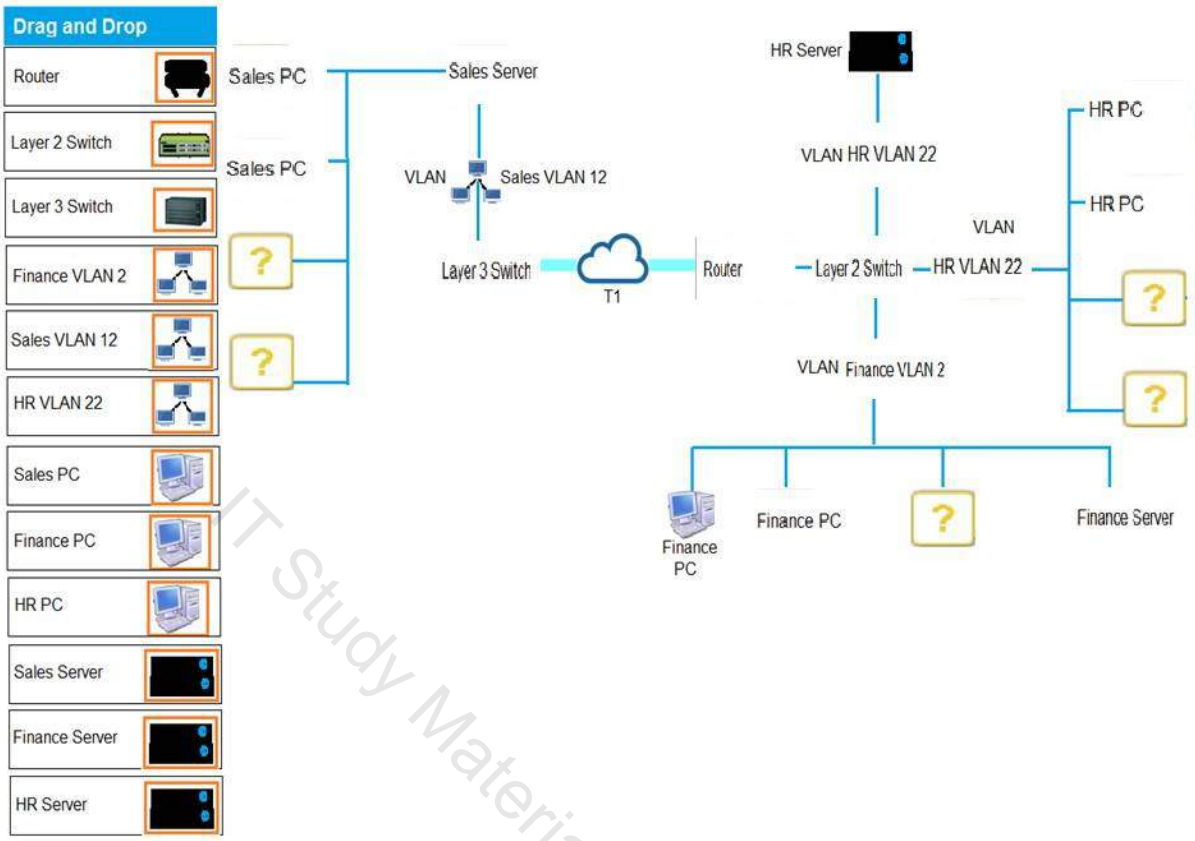

Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 280
Which of the following should a network administrator use to configure Layer 3 routes? (Select TWO).

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

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 281
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?

IT Study Materials & Practical QAs
IT Study Materials & Practical QAs

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 282
Joe, a network engineer, is attempting to install wireless in a large work area. He installs the access point in the middle of the work space. When testing, he notices a -60dB reading on one side of the room and a -92dB reading on the other side. Which of the following is MOST likely the issue?

A. External interference
B. Distance limitations
C. Channel overlap
D. Incorrect antenna type

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 283
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 284
A technician is establishing connectivity through a VPN for remote server access. Which of the following protocols should be utilized to configure this VPN connection securely?

A. IPSec
B. IGRP
C. L2TP

IT Study Materials & Practical QAs

D. PPTP

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 285
A network technician receives a request for a disaster recovery solution. Management has requested no downtime in the event of a disaster. Which of the following recovery solutions is the appropriate choice?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 286
A network technician receives a new firmware update for a network device. The technician wants to ensure the file has not been tampered with. Which of the following techniques should the technician use to ensure the integrity of the file?

A. Cyclic redundancy check
B. System integrity check
C. Hash comparison
D. Root guard

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 287
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

IT Study Materials & Practical QAs

Explanation/Reference:

QUESTION 288
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 289
A network administrator wants to narrow the scope of a subnet to two usable IP addresses within a class C network. Which of the following is the correct CIDR notation?

A. 10.10.50.0/30
B. 172.16.20.0/30
C. 192.1.0.124/30
D. 192.168.0.192/24
E. 192.170.10.0/24

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 290
A network technician notices that most of the nodes in the 10.10.74.0/23 address space return either 1 or 2 node hop after running a `tracert`, however, some of the new servers are showing a hop count larger than 10. Which of the following is the MOST likely reason for this?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

IT Study Materials & Practical QAs

QUESTION 291
A technician has a remote site that often has congestion issues. When this happens, the remote router cannot be managed using SSH because the session drops. Which of the following is a possible solution to the issue?

A. Out-of-band management
B. HTTPS management URL
C. Client-to-site VPN
D. Router ACL

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 292
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 scrope
B. DHCP lease
C. Default gateway
D. DNS zone

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 293
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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 294
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?

IT Study Materials & Practical QAs

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 295
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 296
A network technician is segmenting network traffic into various broadcast domains. Which of the following should the network technician utilize?

A. VLAN
B. STP
C. ACL
D. BPDU

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 297
After rebooting a PC, a user is no longer able to connect to the corporate network. As a test, the technician plugs a different laptop into the same network jack and receives an IP address of 169.254.112.137. Which of the following is MOST likely causing the issue?

A. DHCP scope exhaustion
B. Improper DNS setting
C. Incorrect ACL setting
D. Port-security violation

IT Study Materials & Practical QAs

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 298
A network administrator is concerned about clients being able to access the local Internet while connected to the corporate VPN. Which of the following should be disabled on the client to prevent this?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 299
A network technician travels to a remote office to set up a new SOHO for the company. Wireless networking should be used at the remote office. The network technician sets up all the related wireless network equipment, and the last step is to connect the users' devices to the company network. To complete this step, which of the following should be used to secure the remote network location?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 300
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:

IT Study Materials & Practical QAs

QUESTION 301
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 302
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
D. Modem

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 303
A network technician installed a new host on the network. The host is not connecting to the company's cloud servers. The technician attemtps to ping a server using the AP 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.

IT Study Materials & Practical QAs

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 304
A network technician is performing a firmware upgrade on a switch. The firmware needs to be downloaded to the device. Which of the following methods should the technician use to retrieve the updated firmware?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 305
A network technician is assisting a user who is experiencing connectivity problems with the VPN. The technician has confirmed the VPN is functioning and other users at the site cannot access the Internet. Which of the following commands would MOST likely be used to further troubleshoot?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 306
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 spoken
D. Private certificate

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

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QUESTION 307
Which of the following default ports should be opened on a firewall to allow for SSH and Telnet? (Select TWO)

A. 21
B. 22
C. 23
D. 25
E. 123
F. 443

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 308
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 likley the cause?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 309
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 310

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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 311
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 312
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 313
When configuring a new switch in a packet-switched network, which of the following helps protect against network loops?

A. Spanning tree
B. Flood guard
C. BPDU guard

IT Study Materials & Practical QAs

D. DHCP snooping

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 314
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 deprovision 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 315
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 316
An NGFW alerts that a web server in the DMZ is sending suspicious traffic. A network administrator finds that port 25 is open, and the traffic is originating from this port. The only purpose of this server is to deliver website traffic. Which of the following should the network administrator recommend to the systems administrator?

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

Correct Answer: C

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

Section: (none)
Explanation

Explanation/Reference:

QUESTION 317
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 318
According to the troubleshooting methodology, which of the following steps will help a technician gather information about a network problem? (Select 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 319
A user reports network resources can no longer be accessed. The PC reports a link but will only accept static IP addresses. The technician pings other devices on the subnet, but the PC displays the message `Destination unreachable`. Which of the following are MOST likley the causes of this issue? (Select TWO).

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

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Correct Answer: CE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 320
While testing an ACL on the default gateway router to allow only web browsing, ports TCP 80 and TCP 443 were the only ports open. When tested, no websites were accessible via their URLs inside the network. Which of the following configurations should be added to the ACL?

A. `permit tcp any any eq 20`
B. `permit udp any any eq 25`
C. `permit udp any any eq 53`
D. `permit udp any any eq 68`
E. `permit tcp any any eq 110`
F. `permit tcp any any eq 8080`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 321
Users have been experiencing connection timeout issues when using a web-based program. The network technician determines the problem happened due to a TTL setting that was set too low on the firewall. Which of the following BEST enabled the network technician to reach this conclusion?

A. Reviewing application logs
B. Reviewing a baseline report
C. Reviewing a vulnerability scan
D. Reviewing SLA requirements

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 322
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

IT Study Materials & Practical QAs

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 323
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 324
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 325
Which of the following policies prohibits a network administrator from using spare servers in the datacenter to mine bitcoins?

A. NDA
B. BYOD
C. AUP
D. MOU

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

QUESTION 326
Which of the following technologies is used when multiple Ethernet adapters work to increase speed and fault tolerance?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 327
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? (Select TWO).

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

Correct Answer: DE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 328
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 329

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

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

Correct Answer: CF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 330
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 331
A technician is installing two new servers that collect logs. After installing the servers, the technician reviews the logical output from various commands. Which of the following should be included in a logical network diagram?

A. Rack location
B. Room number
C. Media type
D. Hostname

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 332
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?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 333
A technician is sent to troubleshoot a faulty network connection. The technician tests the cable, and data passes through successfully. No changes were made in the environment, however, when a network device is connected to the switch using the cable, the switchport will not light up. Which of the following should the technician attempt NEXT?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 334
A technician has been assigned to capture packets on a specific switchport. Which of the following switch feature MUST be used to accomplish this?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 335
Which of the following operate only within the UDP protocol?

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

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Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 336
An employee reports an error when visiting a website using SSL, and a message is displayed warning of an invalid certificate. Which of the following could be occurring?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 337
A network technician is troubleshooting a connectivity issue and determines the cause is related to the VLAN assignment on one of the access switches in the network. After resolving the issue, the network technician decides to update the documentation to refer to the correct VLAN. Which of the following should the technician update?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 338
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 port seat.
D. Distance limitations are preventing the students from connecting.

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Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 339
A WAP has been dropping off the network sporadically and reconnecting shortly thereafter. The Cat5 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 340
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 341
A company wishes to allow employees with company-owned mobile devices to connect automatically to the corporate wireless network upon entering the facility. Which of the following would BEST accomplish this objective?

A. Open wireless
B. Geofencing
C. Pre-shared key
D. MAC filtering

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

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QUESTION 342
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 343
A company has procured a new office building and started the process of assigning employees to work at that location. The company has also purchased equipment for the new location. There are 5033 laptops, 6000 monitors, and 857 printers. Which of the following steps is the technician most likely to complete FIRST?

A. Create a rack diagram
B. Create a network baseline
C. Create an inventory database
D. Create a port location diagram

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 344
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 345
A corporate manager says wireless phones do not work properly inside the main building. After a

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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 346
Which of the following technologies is used to attach multiple guest operating systems to a single physical network port?

A. Virtual switch
B. FCoE
C. VPC
D. vSAN
E. Fibre Channel

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 347
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 348
A network technician is installing a new network switch in the MDF. The technician is using fiber to connect the switch back to the core. Which of the following transceiver types should the technician use?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 349
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? (Select 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 350
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 351
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?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 352
A network technician is configuring network addresses and port numbers for a router ACL to block a peer-to-peer application. Which of the following is the HIGHEST layer of the OSI model at which this router ACL operates?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 353
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? (Select 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 354
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?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 355
At which of the following layers of the OSI model would TCP/UDP operate?

A. Layer 3
B. Layer 4
C. Layer 5
D. Layer 6

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

Part 2 -------- Premium Exam Question 628

IT Study Materials & Practical QAs

Exam	**N10-007**
Title	**CompTIA Network+ Exam**
Updated	**Version: 19.0**
Product Type	**628 Q&A**

QUESTION: 1
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

Answer: C

QUESTION: 2
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

Answer: A

QUESTION: 3
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

Answer: D

QUESTION: 4
A technician has installed an older IP camera as a temporary replacement for a recently failed newer one. The technician notices that when the camera's video stream is off, the ping roundtrip time between the camera and the network DVR is consistently less than 1ms without dropped packets. When the camera video stream is turned on, the ping roundtrip time increases dramatically, and network communication is slow and inconsistent. Which of the following is MOST likely the issue in this scenario?

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

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IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

Answer: B

QUESTION: 5
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

Answer: A

QUESTION: 6
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

Answer: C

QUESTION: 7
A network technician installs a web server on the firewall. Which of the following methods should the technician implement to allow access to outside users without giving access to the inside network?

A. VLAN
B. DMZ
C. SNMP
D. NTP

Answer: B

QUESTION: 8
A Chief Information Officer (CIO) tasks the network engineer with protecting the network from outside attacks. Placing which of the following devices on the network perimeter would provide the MOST security for the system?

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

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

Answer: B

QUESTION: 9
Management has requested that a wireless solution be installed at a new office. Which of the following is the FIRST thing the network technician should do?

A. Order equipment
B. Create network diagrams
C. Perform a site survey
D. Create an SSID.

Answer: C

QUESTION: 10
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.

Answer: A

QUESTION: 11
Greater bandwidth and availability are required between two switches. Each switch has multiple 100Mb Ethernet ports available. Which of the following should a technician implement to help achieve these requirements?

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

Answer: D

QUESTION: 12
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

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

Answer: C

QUESTION: 13
Ann, a customer, recently upgraded her SOHO Internet to gigabit fiber from cable. She was previously getting speeds around 75Mbps down and 25Mbps up. After the upgrade, Ann runs a speed test on her desktop and gets results of 1000Mbps down and 100Mbps up. A technician connects directly to the router and sees the correct 1000Mbps speeds. Which of the following is MOST likely the cause? (Select two).

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

Answer: A,C

QUESTION: 14
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.

Answer: D

QUESTION: 15
Which of the following protocols is associated with a three-way handshake?

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

Answer: D

QUESTION: 16
Which of the following would a company place at the edge of its network if it wants to view and control which Internet applications are being used?

A. VPN concentrator
B. NGFW
C. IDS/IPS

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

D. Proxy server

Answer: B

QUESTION: 17
A technician wants to physically connect two office buildings' networks. The office buildings are located 600ft (183m) apart. Which of the following cable types is the BEST choice?

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

Answer: C

QUESTION: 18
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.

Answer: A

QUESTION: 19
A network administrator has had difficulty keeping track of IP address assignments on networking devices and clients recently. Which of the following is the BEST technology to aid in this scenario?

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

Answer: C

QUESTION: 20
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.

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

D. Plug in a second cable and set one port to TX and one port to RX.

Answer: B

QUESTION: 21
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

Answer: C

QUESTION: 22
A network administrator is assigned to run and connect a Cat 6e Ethernet cable between two nodes in a
datacenter. Which of the following connector types should the network administrator use to terminate this
cable?

A. DB-9
B. RS-232
C. DB-25
D. RJ-45

Answer: D

QUESTION: 23
A network technician is planning to update the firmware on a router on the network. The technician has
downloaded the file from the vendor's website. Before installing the firmware update, which of the following steps should the technician perform to ensure file integrity?

A. Perform antivirus and anti-malware scans of the file.
B. Perform a hash on the file for comparison with the vendor's hash.
C. Download the file a second time and compare the version numbers.
D. Compare the hash of the file to the previous firmware update.

Answer: B

QUESTION: 24
A network technician performs a wireless site survey at a company building and identifies that the cafeteria is not covered by a wireless signal. The cafeteria is located in a medium-size, square-shaped room. Which of the following types of WAP antenna should the technician install in the center of the cafeteria to provide the BEST coverage?

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

A. Unidirectional
B. Parabolic
C. Omnidirectional
D. Yagi

Answer: C

QUESTION: 25
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.

Answer: D

QUESTION: 26
At which of the following OSI model layers would a router operate?

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

Answer: B

QUESTION: 27
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

Answer: A,B

QUESTION: 28
A network administrator gets a call regarding intermittent network outages across the country. Which of the
following should be used to connect to the network so the administrator can troubleshoot this issue from
home? (Choose two.)

A. FTP

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

B. SMTP
C. VPN
D. SSH
E. SNMP

Answer: C,D

QUESTION: 29
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

Answer: A,D

QUESTION: 30
A technician is setting up VoIP phones on a wireless network. Users report that calls are choppy and sometimes dropped. The technician has measured two characteristics using simple command-line tools that verify the problem. Which of the following characteristics did the technician measure? (Choose two.)

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

Answer: B,D

QUESTION: 31
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

Answer: C

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

QUESTION: 32
A technician is configuring a printer for a client. The technician connects the printer to the network, but is
unsure how to determine its switchport. Which of the following should the technician do FIRST to locate the switchport?

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

Answer: C

QUESTION: 33
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.

Answer: C

QUESTION: 34
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

Answer: C

QUESTION: 35
A network technician needs to set up an access method for Ann, a manager, to work from home. Ann needs to locally mapped corporate resources to perform her job. Which of the following would provide secure access to the corporate resources?

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

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

Answer: D

QUESTION: 36
Which of the following DNS record types is an alias?

A. CNAME
B. PTR
C. NS
D. SRV

Answer: A

QUESTION: 37
A network technician is working on a new switch implementation to expand the network. Which of the following is the BEST option to ensure the implementation goes according to business requirements?

A. AUP
B. NDA
C. SOP
D. SLA

Answer: C

QUESTION: 38
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.

Answer: A

QUESTION: 39
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

Answer: E

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QUESTION: 40
802.11n clients currently have no way to connect to the network. Which of the following devices should be implemented to let the clients connect?

A. Router
B. Range extender
C. VoIP endpoint
D. Access point

Answer: D

QUESTION: 41
A network technician is setting up a new router. Since it is exposed to the public, which of the following are the BEST steps the technician should take when setting up this device? (Choose two.)

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

Answer: A,F

QUESTION: 42
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

Answer: D

QUESTION: 43
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

Answer: D

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IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

QUESTION: 44
The Chief Executive Officer's (CEO's) tablet cannot connect to the wireless network from the corner office. A network technician verified the tablet can connect to the wireless network in other areas of the building. The distance between the office and the 802.11ac WAP is 150ft (46m), and there are a few cubicles in between. Which of the following is the MOST likely cause of the tablet not connecting?

A. Absorption
B. Refilection
C. Distance
D. Refraction
E. Attenuation

Answer: C

QUESTION: 45
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

Answer: A

QUESTION: 46
A technician is working on a new machine that has been procured for testing and development. The machine will run a hypervisor and host several operating systems of various types so the development team can test the company's applications in a variety of environments. The technician wants the virtual machines to be available to communicate with each other without leaving the hypervisor. Which of the following is the BEST solution to the problem?

A. The technician should connect the machine to its own separate switch.
B. The technician should add a route in each virtual machine to the default gateway.
C. The technician should configure a virtual switch.
D. The technician should set up individual routes between the machines.

Answer: C

QUESTION: 47
A network technician is repurposing a switch that has been in storage for some time. The device has been wiped to factory defaults. Which of the following should be done FIRST to ensure the device has been hardened before configuration?

A. Generate new keys.
B. Disable unused ports.
C. Check for updated firmware.

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

D. Configure the default VLAN.

Answer: C

QUESTION: 48
A technician is setting up a wireless access point in a coffee shop. The shop is not concerned with security but only wants to allow customers to have access. Which of the following configurations should the technician deploy?

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

Answer: A

QUESTION: 49
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

Answer: B

QUESTION: 50
A technician is assigned to secure a basic wireless network. Which of the following authentication protocol should the technician use to performed this task (select TWO).

A. RDP
B. SNMP
C. WPA2
D. EAP SSL

Answer: C,D

QUESTION: 51
A technician is sent to a remote office to set up a device to connect to the internet. The company Standard document requires stateful inspection.
Which of the following should the technician install?

A. ROUTER
B. Multilayer switch
C. Firewall
D. Bridge

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

Answer: C
:

QUESTION: 52
A system administrator receives report from users of odd behavior in regard to 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.

Answer: C

QUESTION: 53
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

Answer: A

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QUESTION: 54
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 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.

Answer: A

QUESTION: 55
Which of the following storage network technologies inherently leverages block-level storage?

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

Answer: A

QUESTION: 56
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

Answer: D

QUESTION: 57
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
• WofkstationC
• WorkstationD
• WokstationE
• WorkstalionF
• WorkstalionG
• Laptop1
• Laptop2

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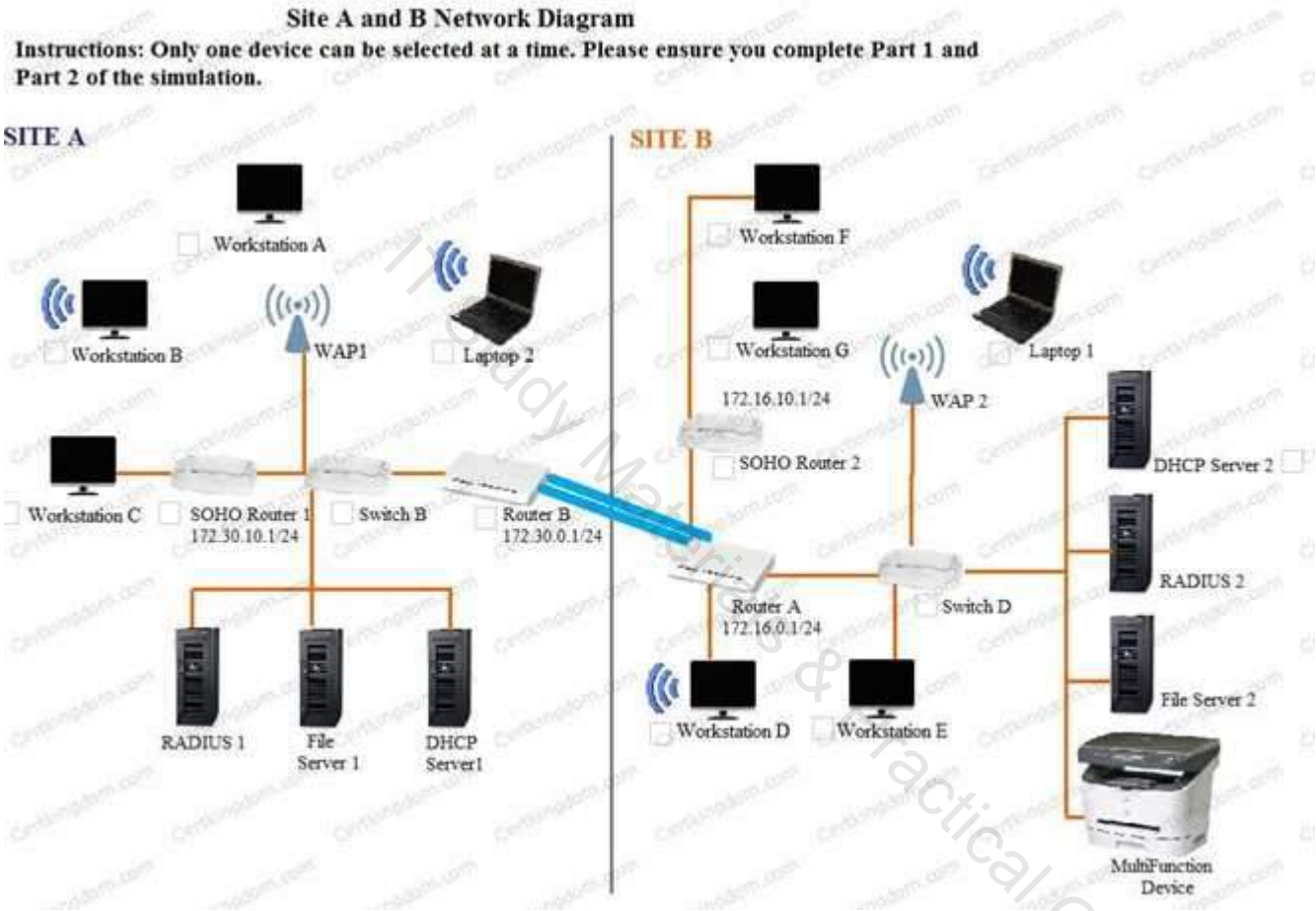
• DHCP server1
• DHCP serverr2
Review the settings and select the box in the diagram that identifies the device causing the issue.
Only one device can be selected at a time.
After checking the device that is causing the issue, select the second tab in the lower left hand corner. Identify the reason as to why some users are unable to access the network.



WORKSTATION A

IP Address	172.30.0.10
Netmask	255.255.255.0
Gateway	172.30.0.1

OK

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WORKSTATION B

IP Address	172.30.0.14
Netmask	255.255.255.0
Gateway	172.30.0.1

OK

WORKSTATION C

IP Address	169.254.200.67
Netmask	255.255.255.0
Gateway	

OK

WORKSTATION D

IP Address	172.16.0.221
Netmask	255.255.255.0
Gateway	172.16.0.1

OK

WORKSTATION E

IP Address	172.16.0.21
Netmask	255.255.255.0
Gateway	172.16.0.1

OK

WORKSTATION F

IP Address	172.16.10.43
Netmask	255.255.255.0
Gateway	172.16.10.1

OK

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IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

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

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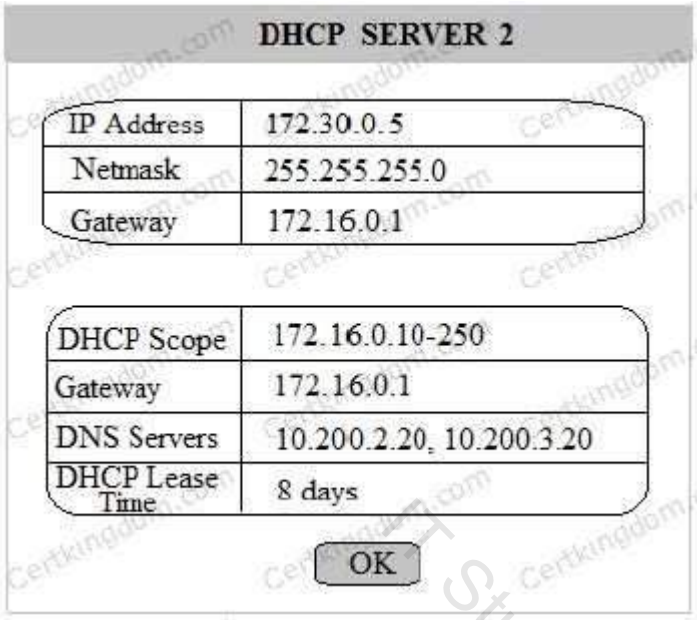

Part 2
Identify the reason as to why some users are unable to access the network.

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

Answer: G

QUESTION: 58
A UTM is deployed on the external edge of the main corporate office. The office connects to the WAN port of the edge router. The edge router at the main office connects to the remote offices using GRE IPSec tunnels. A network administrator notices that a worm that was not detected by the UTM has spread from the remote sites into the corporate network. The UTM currently has traffic rules applied that should block the port used by the worm. Which of the following steps would MOST likely correct this issue?

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

Answer: C

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QUESTION: 59
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?

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

Answer: B

QUESTION: 60
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

Answer: C

QUESTION: 61
A network technician receives a call from a user in the accounting department stating that Internet connectivity has been lost after receiving a new workstation. No other users in accounting are reporting similar issues. The network technician is able to ping the machine from the accounting department's router, but is not able to ping the machine from the IT network. Which of the following is MOST likely the cause?

A. Incorrect default gateway
B. Duplicate IP address
C. Misconfigured OSPF
D. Improper VLAN assignment

Answer: A

QUESTION: 62
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

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

E. ARP

Answer: B

QUESTION: 63
A technician is installing a new wireless badging system on a hospital network. The requirements of the badging system are for it to have its own SSID and low power levels. The badging system has to cover 99.9% of the hospital. Which of the following is the BEST action to take to meet the system requirements?

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

Answer: A

QUESTION: 64
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

Answer: B

QUESTION: 65
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

Answer: A

QUESTION: 66
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

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

C. Standard operating procedures
D. Wiring documentation

Answer: A

QUESTION: 67
Which of the following would allow a device to maintain the same IP address lease based on the physical address of the network card?

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

Answer: A

QUESTION: 68
A technician wants to prevent an unauthorized host from connecting to the network via Ethernet. Which of the following is a Layer 2 access control the technician should implement?

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

Answer: D

QUESTION: 69
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

Answer: A

QUESTION: 70
The server team has just installed an application across three different servers. They are asking that all requests to the application are spread evenly across the three servers. Which of the following should the network team implement to fulfil the request?

A. Proxy server
B. UTM appliance
C. Content filter

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

D. Load balancer

Answer: D

QUESTION: 71
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

Answer: A

QUESTION: 72
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

Answer: C

QUESTION: 73
A network technician is troubleshooting wireless network issues in a crowded office complex and suspects there is interference from nearby wireless networks. Which of the following should the technician perform to discover possible interference?

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

Answer: A

QUESTION: 74
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

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

D. Document the theory

Answer: A

QUESTION: 75
A network technician has discovered a rogue access point 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

Answer: B

QUESTION: 76
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

Answer: A

QUESTION: 77
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

Answer: B

QUESTION: 78
A network administrator configures a router with the following IP address information:
Gigabit Ethernet 1 Interface: 10.10.0.1/24
Serial 0 Interface: 10.10.0.253/30
Clients are connected to a switch on the gigabit Ethernet interface; the ISP is connected to the Serial 0 interface. When the router configuration is complete and client devices are reconfigured, all clients report that they are unable to connect to the Internet. Which of the following is the MOST likely reason?

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IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

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

Answer: C

QUESTION: 79
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

Answer: A,C

QUESTION: 80
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

Answer: A

QUESTION: 81
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

Answer: A

QUESTION: 82
Which of the following is a vulnerable system designed to detect and log unauthorized access?

A. SIEM
B. Honeypot
C. DMZ

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

D. Proxy server

Answer: B

QUESTION: 83
According to the OSI model, at which of the following layers is data encapsulated into a packet?

A. Layer 2
B. Layer 3
C. Layer 4
D. Layer 5
E. Layer 6

Answer: B

QUESTION: 84
Which of the following WAN technologies is MOST preferred when developing a VoIP system with 23 concurrent channels?

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

Answer: C

QUESTION: 85
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

Answer: B

QUESTION: 86
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

Answer: C

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

QUESTION: 87
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

Answer: C

QUESTION: 88
A network engineer is designing a new network for a remote site. The remote site consists of ten desktop computers, ten VoIP phones, and two network printers. In addition, two of the desktop computers at the remote site will be used by managers who should be on a separate network from the other eight computers. Which of the following represents the BEST configuration for the remote site?

A. One router connected to one 24-port switch configured with three VLANS: one for the manager's computers and printer, one for the other computers and printer, and one for the VoIP phones
B. Two routers with each router connected to a 12-port switch, with a firewall connected to the switch connected to the manager's desktop computers, VoIP phones, and printer
C. One router connected to one 12-port switch configured for the manager's computers, phones, and printer, and one 12-port switch configured for the other computers, VoIP phones, and printer
D. One router connected to one 24-port switch configured with two VLANS: one for the manager's computers, VoIP phones, and printer, and one for the other computers, VoIP phones, and printer

Answer: A

QUESTION: 89
A network technician is troubleshooting an end-user connectivity problem. The network technician goes to the appropriate IDF but is unable to identify the appropriate cable due to poor labeling. Which of the following should the network technician use to help identify the appropriate cable?

A. Tone generator
B. Multimeter

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C. OTDR
D. Loopback adapter

Answer: A

QUESTION: 90
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

Answer: A

QUESTION: 91
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

Answer: A,C,F

QUESTION: 92
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

Answer: C

QUESTION: 93
A network administrator is setting up a web-based application that needs to be continually accessible to the end users. Which of the following concepts would BEST ensure this requirement?

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IT Study Materials & Practical QAs
IT Study Materials & Practical QAs

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

Answer: A

QUESTION: 94
Which of the following devices should a network administrator configure on the outermost part of the network?

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

Answer: D

QUESTION: 95
A company finds that many desktops are being reported as missing or lost. Which of the following would BEST assist in recovering these devices?

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

Answer: D

QUESTION: 96
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

Answer: D

QUESTION: 97
A technician is diagnosing an issue with a new T1 connection. The router is configured, the cable is connected, but the T1 is down. To verify the configuration of the router, which of the following tools should the technician use?

A. Loopback adapter
B. Cable tester

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IT Study Materials & Practical QAs
IT Study Materials & Practical QAs

C. Tone generator
D. Multimeter

Answer: A

QUESTION: 98
A network technician receives a call from a use 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

Answer: A

QUESTION: 99
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

Answer: D

QUESTION: 100
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

Answer: B

QUESTION: 101
A network engineer wants to a segment the network into multiple broadcast domains. Which of the following devices would allow for communication between the segments?

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

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

Answer: B

QUESTION: 102
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

Answer: A

QUESTION: 103
A network technician is assisting the security team with some traffic captures. The security team wants to capture all traffic on a single subnet between the router and the core switch. To do so, the team must ensure there is only a single collision and broadcast domain between the router and the switch from which they will collect traffic. Which of the following should the technician install to BEST meet the goal?

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

Answer: C

QUESTION: 104
Based on networks 10.8.16.0/22 and 10.8.31.0/21, which of the following is the BEST summarized CIDR notation?

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

Answer: A

QUESTION: 105
A technician discovers that multiple switches require a major update. Which of the following policies should be followed?

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IT Study Materials & Practical QAs
IT Study Materials & Practical QAs

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

Answer: A

QUESTION: 106
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-andreceive 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

Answer: A

QUESTION: 107
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

Answer: B

QUESTION: 108
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 me
B. IP helper
C. TTL
D. DNS record type

Answer: B

QUESTION: 109
When enabling jumbo frames on a network device, which of the following parameters is being adjusted?

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

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

Answer: C

QUESTION: 110
A technician logs onto a system using Telnet because SSH is unavailable. SSH is enabled on the target device, and access is allowed from all subnets. The technician discovers a critical step was missed. Which of the following would allow SSH to function properly?

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

Answer: B

QUESTION: 111
A network administrator wants to ensure sensitive data is not exfiltrated from the system electronically. Which of the following should be implemented?

A. DLP
B. AUP
C. NDA
D. SLA

Answer: A

QUESTION: 112
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 domain that exist?

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

Answer: D

QUESTION: 113
A network technician wants to remotely and securely access the desktop of a Linux workstation. The desktop is running remote control software without encryption. Which of the following should the technician use to secure the connection?

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

A. SSH in tunnel mode
B. RDP set to console connection
C. EAP-PEAP
D. SFTP

Answer: A

QUESTION: 114
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

Answer: A

QUESTION: 115
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

Answer: E,F,G

QUESTION: 116
After a server outage, a technician discovers that a physically damaged fiber cable appears to be the problem. After replacing the cable, the server will still not connect to the network. Upon inspecting the cable at the server end, the technician discovers light can be seen through one of the two fiber strands. Which of the following should the technician do FIRST to reconnect the server to the network?

A. Reverse the fiber strands of the cable and reconnect them to the server
B. Use a TDR to test both strands of a new replacement cable prior to connecting it to the server
C. Replace the server's single-mode fiber cable with multimode fiber
D. Move the fiber cable to different port on the switch where both strands function

Answer: A

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

QUESTION: 117
The backups 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

Answer: C

QUESTION: 118
A technician is trying to determine the IP address of a customer's router. The customer has an IP address of 192.168.1.55/24. Which of the following is the address of the customer's router?

A. 192.168.0.55
B. 192.168.1.0
C. 192.168.1.1
D. 192.168.5.5
E. 255.255.255.0

Answer: C

QUESTION: 119
A network technician is able to connect the switches between to 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

Answer: C

QUESTION: 120
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

Answer: C

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

QUESTION: 121
Which of the following is the correct port number for NTP?

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

Answer: C

QUESTION: 122
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

Answer: C

QUESTION: 123
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

Answer: B

QUESTION: 124
A technician is replacing a switch at a branch office and discovers the existing backbone cable does not fit in the new switch. The fiber patch panel has circular connections. The new switch has a transceiver that accepts a smaller square adapter of two strands. Which of the following patch cables would the technician need to complete the installation?

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

Answer: C

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IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

QUESTION: 125
A computer lab on a campus network was recently reconfigured using recycled network cables. One of the 24 computers in the lab is unable to connect to the network after the upgrade. A network technician successfully uses the cable in question to connect directly to another computer. Which of the following is MOST likely issue with the cable?

A. The cable is a crossover cable
B. The cable is rollover cable
C. The cable has bent pins
D. The cable is a Cat 5 cable

Answer: A

QUESTION: 126
Which of the following is a reason why a business may be hesitant to move sensitive data to a SaaS cloud service?

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

Answer: B

QUESTION: 127
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

Answer: C

QUESTION: 128
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

Answer: D

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

QUESTION: 129
A technician is setting up a branch office on a point-to-point connection. Which of the following IP network blocks is the MOST efficient use of IP address space for the router connections between the two sites?

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

Answer: C

QUESTION: 130
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

Answer: B,E

QUESTION: 131
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

Answer: D

QUESTION: 132
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

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

Answer: A

QUESTION: 133
Which of the following protocols do MOST MITM attacks utilize?

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

Answer: A

QUESTION: 134
An ISP technician gets a call from a business that just changed equipment but can no longer connect to the Internet. The technician checks the ARP table on the ISP switch, and there is no corresponding MAC address present. Instead, the entry is "Incomplete". Which of the following could cause this condition?

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

Answer: B

QUESTION: 135
A systems administrator has recently purchased and installed a large electronic signage screen for the company's parking garage. The screen's management software was installed on a server with public IP address to allow remote management. The systems administrator is now troubleshooting an issue with the screen displaying unknown, random, and inappropriate messages. Which of the following is MOST effective in resolving this issue?

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

Answer: A

QUESTION: 136
A technician is investigating a server performance issue. The technician has gathered the server utilization statistics. Which of the following should the technician use to determine which statistics are not in the normal range?

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

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

D. Archiving logs

Answer: A

QUESTION: 137
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

Answer: C, D

QUESTION: 138
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

Answer: A

QUESTION: 139
An administrator is moving to a new office. There will be several network runs through the ceiling area of the office. Which of the following is the BEST to utilize in these areas?

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

Answer: D

QUESTION: 140
A network technician receives a spool of Cat 6a cable and is asked to build several cables for a new set of Ethernet runs between devices. Which of the following tools are MOST likely needed to complete the task? (Choose three.)

A. Wire stripper
B. Cable crimper
C. RJ-11 connectors

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D. RJ-45 connectors
E. Multimeter
F. Punchdown tool
G. Tone generator

Answer: A,B,D

QUESTION: 141
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

Answer: A,B

QUESTION: 142
A telecommunications provider has just deployed a new OC-12 circuit at a customer site. While the circuit showed no errors from the provider end to the customer's demarcation point, a network administrator is trying to determine the cause of dropped packets and errors on the circuit. Which of the following should the network administrator do to rule out any problems at Layer 1? (Choose two.)

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

Answer: A,B

QUESTION: 143
A single PRI can deliver multiple voice calls simultaneously using which of the following Layer 1 technologies?

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

Answer: A

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

QUESTION: 144
A network technician is diagnosing a time-out issue generated from an end user's web browser. The web browser issues standard HTTP get and post commands to interact with the website. Given this information, the technician would like to analyze the entire TCP handshake of the HTTP requests offline. Which of the following tools would allow the technician to view the handshake?

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

Answer: A

QUESTION: 145
A customer cannot access a company's secure website. The company's network security is reviewing the firewall for the server and finds the following output:

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

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

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

Answer: C

QUESTION: 146
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

Answer: B

QUESTION: 147
An engineer is reviewing the implementation requirements for an upcoming project. The basic requirements identified by the customer include the following:

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WLAN architecture supporting speeds in excess of 150 Mbps
Clientless remote network access
Port-based network access control
Which of the following solution sets properly addresses all of the identified requirements?

A. 802.11a, IPSec VPN, 802.1x
B. 802.11ac, MPLS, 802.3
C. 802.11b, PPTP, 802.1x
D. 802.11g, MS-CHAP, 802.16
E. 802.11n, SSL-VPN, 802.1x

Answer: E

QUESTION: 148
Which of the following is used to classify network data for the purpose of providing QoS?

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

Answer: D
a

QUESTION: 149
A network technician needs to separate a web server listening on port 80 from the internal LAN and secure the server from the public Internet. The web server should be accessible to the public Internet over port 80 but not the private LAN. Currently, the network is segmented with a networkQuestions & Answers PDF P-50
based firewall using the following IP addressing scheme on each interface:

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

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

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

IT Study Materials & Practical QAs
IT Study Materials & Practical QAs

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

Answer: B

QUESTION: 150
A company recently upgraded all of its printers to networked multifunction devices. Users can print to the new devices, but they would also like the ability to scan and fax files from their computers. Which of the following should the technician update to allow this functionality?

A. Device software
B. Printer drivers
C. Printer firmware
D. NIC drivers

Answer: C

QUESTION: 151
A disgruntled employee executes a man-in-the-middle attack on the company network. Layer 2 traffic destined for the gateway is redirected to the employee's computer. This type of attack is an example of:

A. ARP cache poisoning
B. IP spoofing
C. amplified DNS attack
D. evil twin

Answer: A

QUESTION: 152
The process of attempting to explogt a weakness in a network after being given permission by the company is known as:

A. penetration testing
B. vulnerability scanning
C. reconnaissance
D. social engineering

Answer: A

QUESTION: 153
A company has contracted with an outside vendor to perform a service that will provide hardware, software, and procedures in case of a catastrophic failure of the primary datacenter. The Chief Information Officer (CIO) is concerned because this contract does not include a long-term strategy for extended outages. Which of the following should the CIO complete?

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

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

Answer: B

QUESTION: 154
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

Answer: C,D

QUESTION: 155
A network administrator has a monitoring system in place that is currently polling hundreds of network devices at regular intervals. The continuous polling is causing high CPU utilization on the server. Which of the following tasks should the administrator perform to resolve the CPU issue while maintaining full monitoring capabilities?

A. Remove SNMP polling and configure SNMP traps on each network device
B. Remove SNMP polling and implement snmpwalk on each network device
C. Upgrade SNMP to the latest version to mitigate vulnerabilities
D. Modify SNMP polling to poll only during business hours

Answer: A

QUESTION: 156
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

Answer: A

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QUESTION: 157
Users are reporting their network is extremely slow. The technician discovers pings to external host have excessive response times. However, internal pings to printers and other PCs have acceptable response times. Which of the following steps should the technician take NEXT?

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

Answer: A

QUESTION: 158
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

Answer: A

QUESTION: 159
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

Answer: A

QUESTION: 160
The IT manager at a small firm is in the process of renegotiating an SLA with the organization's ISP. As part of the agreement, the organization will agree to a dynamic bandwidth plan to provide 150Mbps of bandwidth. However, if the ISP determines that a host on the organization's internal network produces malicious traffic, the ISP reserves the right to reduce available bandwidth to 1.5 Mbps. Which of the following policies is being agreed to in the SLA?

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

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

Answer: C

QUESTION: 161
A network technician has just configured NAC for connections using Cat 6 cables. However, none of the Windows clients can connect to the network.
Which of the following components should the technician check on the Windows workstations? (Choose two.)

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

Answer: A,C

QUESTION: 162
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

Answer: B

QUESTION: 163
A building is equipped with light sensors that turn off the fluorescent lights when natural light is above a certain brightness. Users report experiencing network connection issues only during certain hours. The west side of the building experiences connectivity issues in the morning hours and the east side near the end of the day. At night the connectivity issues affect the entire building. Which of the following could be the cause of the connectivity issues?

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

Answer: C

QUESTION: 164
A network technician configures a firewall's ACL to allow outgoing traffic for several popular services such as email and web browsing. However, after the firewall's deployment, users are still unable to retrieve their emails. Which of the following would BEST resolve this issue?

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

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

Answer: B

QUESTION: 165
A network security technician observes multiple attempts to scan network hosts and devices. All the attempts originate from a single host on the network. Which of the following threats is MOST likely involved?

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

Answer: C

QUESTION: 166
Which of the following would be the MOST efficient subnet mask for a point-to-point link?

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

Answer: C

QUESTION: 167
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
```

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IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

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

Answer: B

QUESTION: 168
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

Answer: A

QUESTION: 169
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

Answer: B,E

QUESTION: 170
A network technician is creating a new subnet for 488 host machines. The technician is told to use a class B address scheme when making the subnet and is instructed to leave as much room as possible for additional subnets of the same size. Which of the following subnets would fulfill these requirements?

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

IT Study Materials & Practical QAs
IT Study Materials & Practical QAs

Answer: D

QUESTION: 171
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

Answer: A

QUESTION: 172
Which of the following DNS records needs to be configured for SMTP traffic?

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

Answer: A

QUESTION: 173
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

Answer: C

QUESTION: 174
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

Answer: C

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

QUESTION: 175
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

Answer: A

QUESTION: 176
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

Answer: A

QUESTION: 177
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

Answer: C

QUESTION: 178
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

Answer: C

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IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

QUESTION: 179
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

Answer: D

QUESTION: 180
Which of the following protocols can be both connection-oriented and connectionless?

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

Answer: B

QUESTION: 181
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 explogting poor VLAN tagging. Session hijacking is a web-based attack aimed at privilege escalation

Answer: A

QUESTION: 182
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 explogtation. Which of the following attacks has the analyst successfully performed in this scenario?

A. Bluesnarfing
B. Session hijacking
C. MAC spoofing
D. VLAN hopping

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

E. Man-in-the-middle

Answer: E

QUESTION: 183
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

Answer: A,C

QUESTION: 184
A user reports that a laptop cannot connect to the Internet despite the fact the wireless Internet was functioning on it yesterday. The user did not modify the laptop in any way, and the wireless Internet is functional on other users' laptops. Which of the following issues should be reviewed to help the user to connect to the wireless network?

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

Answer: A

QUESTION: 185
A network administrator wants to increase the confidentiality of the system by hardening the authentication process. Currently, the users log in using usernames and passwords to access the system. Which of the following will increase the authentication factor to three?

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

Answer: A

QUESTION: 186
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?

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

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

Answer: A

QUESTION: 187
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

Answer: D

QUESTION: 188
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

Answer: B

QUESTION: 189
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

Answer: A,B

QUESTION: 190
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?

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

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

Answer: C

QUESTION: 191
A network technician is installing a new network switch is looking for an appropriate fiber optic patch cable. The fiber optic patch panel uses a twist-style connector. The switch uses a SFP module. Which of the following connector types should the fiber patch cable have?

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

Answer: B

QUESTION: 192
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

Answer: E

QUESTION: 193
A network administrator wishes to ensure there are no unnecessary open communication paths into a server. Using a port scanner, the administrator finds that ports are reported as closed. Which of the following BEST explains this response?

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

Answer: B

QUESTION: 194
Users are reporting issues with slow connection speeds and a loss of connectivity on the newly installed wireless network. The issues are intermittent but seem to occur most often around midday.

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IT Study Materials & Practical QAs
IT Study Materials & Practical QAs

Which of the following is the MOST likely cause?

A. There is interference from small appliances
B. The signal coverage area is too small
C. Not enough DHCP addresses have been allotted
D. The DNS cache on the users' computers has become corrupt

Answer: C

QUESTION: 195
A user reports difficulties connecting a PC to a wired network. The PC connects to an IP phone, which is working correctly. A network technician can verify that other devices successfully connect to the phone. At which of the following layers of the OSI model is the problem MOST likely located?

A. Network
B. Physical
C. Transport
D. Application

Answer: A

QUESTION: 196
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

Answer: C

QUESTION: 197
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

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IT Study Materials & Practical QAs

D. Switch 2

Answer: B

QUESTION: 198
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

Answer: C

QUESTION: 199
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

Answer: E,F

QUESTION: 200
A network administrator is testing connectivity at a new corporate site. The site has a wireless guest as well as a wired employee network. After verifying connectivity, the administrator checks link speeds by using a speed testing website. The speed testing website shows lower download and upload speeds for the wired network than the wireless network. Which of the following is the MOST likely explanation?

A. There is less local congestion on the wireless network
B. The testing server for the wired network was farther away
C. The firewall is configured to throttle traffic to specific websites
D. The wireless access points were misconfigured

Answer: B

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

QUESTION: 201
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

Answer: C

QUESTION: 202
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?

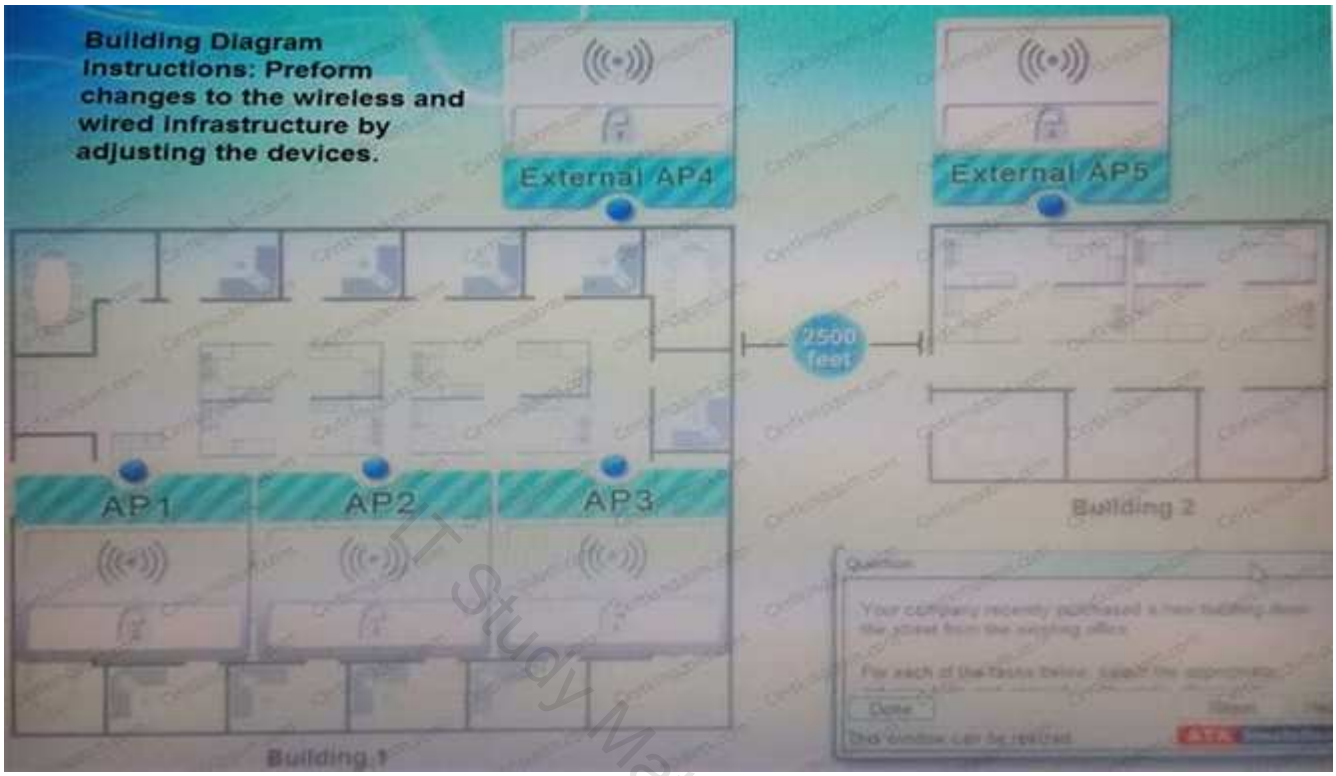
A. The WAP antenna is damaged
B. The WAP transmitter light is dim
C. The terminal emulation software is misconfigured
D. The LWAPP image is installed on the WAP

Answer: C

QUESTION: 203
Your company recently purchased a new building down the street from the existing office. For each of the tasks below, select the appropriate antenna type and encryption object for all wireless access point (AP).
1. Create an encrypted wireless connection between the two buildings that BEST controls signal propagation, while maximizing security.
2. Restrict the wireless signal generated by the access points (APs) inside Building 1, so that it minimizes broadcast beyond the building.
3. Maximize wireless coverage inside Building 1.
4. Building 1's internal wireless network is for visitors only and must not require any special configuration on the visitor's device to connect.

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs



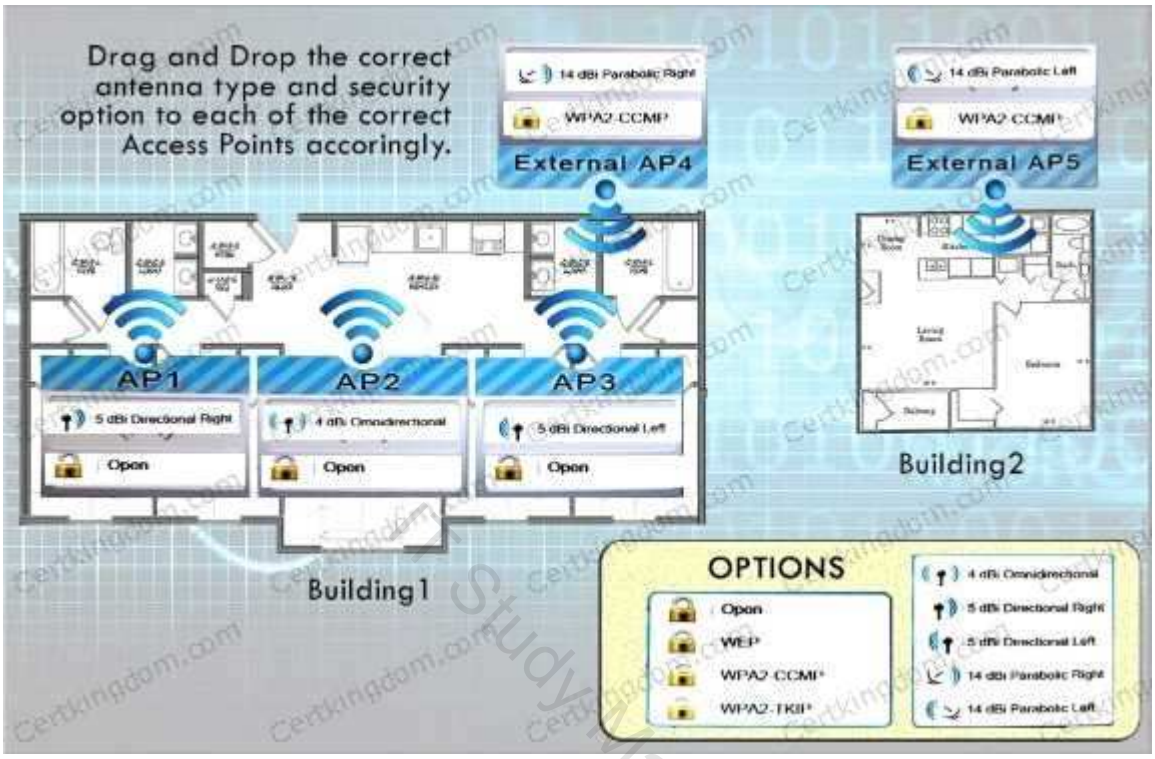
Instructions: When you have completed the simulation, select the Done button to submit.

Answer: See
explanation below.
Explanation.
Answer is as below in image.

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs



QUESTION: 204
A technician has installed a Linux server in the tax office. The server can access most of the resources on the network, but it cannot connect to another server that has a share for backup. The technician learns that the target server is on a different subnet. Which of the following tools should the technician use to ensure the Linux server can reach the backup location?

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

Answer: B

QUESTION: 205
Which of the following WAN technologies provides a guaranteed throughput rate?

A. DSL
B. T-1
C. Cable broadband
D. Dial-up

Answer: B

QUESTION: 206
Which of the following is the SHORTEST way to write 2001:0000:0d58:0000:0000:0095:7565:0001 in

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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

Answer: C

QUESTION: 207
A network administrator needs to transmit traffic to geographically diverse sites to improve performance. Which of the following devices would BEST direct traffic to the remote sites?

A. Hub
B. Bridge
C. Switch
D. Router

Answer: D

QUESTION: 208
Which of the following should a technician investigate when using a network baseline to troubleshoot?

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

Answer: B

QUESTION: 209
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.

Answer: B

QUESTION: 210
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?

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

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

Answer: B

QUESTION: 211
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

Answer: B

QUESTION: 212
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

Answer: D

QUESTION: 213
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

Answer: A

QUESTION: 214
Which of the following BEST describes the BGP routing protocol?

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

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

Answer: B

QUESTION: 215
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.

Answer: D

QUESTION: 216
Which of the following protocols authenticates a PC to the server using a ticket issued to it by the authentication service?

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

Answer: A

QUESTION: 217
Which of the following protocols is associated with a three-way handshake?

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

Answer: D

QUESTION: 218
Which of the following would a company place at the edge of its network if it wants to view and control which Internet applications are being used?

A. VPN concentrator
B. NGFW
C. IDS/IPS
D. Proxy server

Answer: B

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

QUESTION: 219
A company is allowing its employees to use their personal computers, tables, and loT 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

Answer: C

QUESTION: 220
A technician wants to deploy a network that will require wireless client devices to prompt for a username and password before granting access to be the wireless network. Which of the following must be configured to implement this solution?

A. EAP-PEAP
B. CCMP-AES
C. WPA2-PSK
D. TKIP-RC4

Answer: A

QUESTION: 221
A network technician recently installed a new server on a network. The technician must ensure the server does not have any unnecessary services running. The IP address of the server is 204.211.38.50 Which of the following commands would allow the technician to make this determination?

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

Answer: A

QUESTION: 222
A technician is observing brownout issue at a smaller office. At least once a week, the edge switch power cycles. Which of thy following should the technician do to resolve the issue?

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

Answer: B

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

QUESTION: 223
A network technician has to integrate three legacy industrial devices into the existing wireless network. The devices only support 802.11b and TKIP. Which of the following should the technician do to connect these devices to the wireless network with the restrictive settings while not affecting the performance of the other users? (Select Two).

A. Create a second SSID that uses WPA personal.
B. Change the encryption to WPA@ personal.
C. Enable MAC filtering.
D. Change the encryption to WPA2 Enterprise.

Answer: D

QUESTION: 224
A security guard notices an unauthorized individual, who is dressed like 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

Answer: B
Social engineering attacks aren't considered hacking—at least in the classic sense of the word—although the goals are the same. Social engineering is where people attack an organization through the people in the organization or physically access the organization to get the information they need.

QUESTION: 225
A technician is configuring a default route with IPv6. Which of the following is the correct setting for an IPV6 default rout?

A. : : 1
B. : : /0
C. 2001: :0/64
D. FE80 : :0/64

Answer: C

QUESTION: 226
A recently constructed building makes use of glass and natural light. Users in the building are reporting poor cellular connectivity and speeds. Which of the following is MOST likely the cause?

A. Absorption
B. Channel overlap
C. Refilection
D. Frequency mismatch

Answer: C

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

QUESTION: 227
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 technician. 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

Answer: A

QUESTION: 228
A network technician is adding workstation to the enterprise network. After bringing the PCs online. The technician receives reports from random users that they cannot log on. The technician checks and finds everything is functioning for most users. Which of the following is MOST likely causing the problem?

A. Exhausted DHCP scope
B. DNS resolving
C. Duplicate Mac address
D. Incorrect ACL entry

Answer: C

QUESTION: 229
While working on a Linux-based OS, a technician experiences an issue accessing servers and some sites by name. Which of the following command-line tools should the technician use to assist in troubleshooting?

A. dig
B. iptables
C. ifconfig
D. traceroute

Answer: A

QUESTION: 230
A technician needs to order cable that meets 10GBaseT and 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

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

Answer: C
10GBaseT A 10 GbE standard designed to run on Cat 6a UTP cabling. Maximum cable length of 100 m.

QUESTION: 231
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 FASTES method possible?

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

Answer: E

QUESTION: 232
A chief information Officer (CIO) tasks the network engineer with protecting the network from outside attacks. Placing which of the following devices on the network perimeter would provide the MOST security for the system?

A. Firewall
B. NGFW
C. Content filter
D.IDS/PS

Answer: B

QUESTION: 233
A technician is allocating the IP address space needed for a 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 192.1.0/24 block to the remote office. The engineering staff has been allocated the 192.168./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

Answer: A

QUESTION: 234
Ann, a new employees within a department, cannot print to any of the printers in the department or access any of the resources that other can. However, she can access the internet. The network engineer has confirmed that Ann's has been set up same as the others. There are no access lists restricting Ann's access. Which of the following cloud be the issue for this lack of access?

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

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

Answer: B

QUESTION: 235
Which of the following backup techniques is used to capture all the data that has changed since the least full backup?

A. Incremental
B. Replica
C. Different
D. Snapshot

Answer: C

QUESTION: 236
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. MPLS
D.OSPF

Answer: A

QUESTION: 237
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

Answer: B

QUESTION: 238
A company dedicates deploy customer –facing, touch-screen kiosks. The kiosks appear to have several open service ports that potentially became compromised. Which of the following is the MOST effective way to project the kiosk?

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

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

Answer: A

QUESTION: 239
A Content filter is set to analyze XML and JSON that users access from the internet. At which of the following layer's is this analysis taking place?

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

Answer: E

QUESTION: 240
Which of the following would allow a network technician to access files on a remote system? (Select TWO).

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

Answer: A,B

QUESTION: 241
Which of the following is recognized as the SMALLEST network type?

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

Answer: C
PAN is definitively the smallest type of network you can currently use and the name comes from Personal Area Network. You've probably used this in the last week without even knowing it.
http://compinfopro.com/types-of-network-pan-man-wlan-san-can-dan/

QUESTION: 242
A network technician has unable to make a from a datacenter. The technician attempts to use the

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

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 UTP instead of STP.
C. The cables are 6 instead of Cat 5.
D. The cables plenum rated.

Answer: D

QUESTION: 243
A technician has been alerted of incoming HTTP traffic on the LAN segment that should not contain any web server's The technician has the IP address of the destination host and wants to determine if the socket for HTTP is open. Which of the following should the technician perform?

A. Baseline assessment
B. packet analysis
C. portscan
D. Patch-level assessment.

Answer: C

QUESTION: 244
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 time-based ACL applied for the network segment.
B. A light source is creating EMI interface, affecting the UTP.
C. Nightly backups are consuming excessive bandwidth.
D. The user has violated the AUP, and Internet access has been restricted

Answer: D

QUESTION: 245
Which of the following can be done to implement network device hardening (Select TWO).

A. Implement spanning tree
B. Perform VLAN hopping
C. Patch and update
D. Perform backups
E. Enable port mirroring
F. Change default admin password

Answer: C, F
Network devices come with default credentials, the username and password that enables you to log into the device for configuration. Changing default credentials should
be the first step in hardening a new device. As with any other system, avoiding common passwords

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adds security.
Keep network devices up to date. That means upgrading firmware, patching and updating as necessary to close any security gaps exposed over time.
Services on network devices like routers include common things, like Telnet and HTTP access; and also things you don't normally see, like TCP and UDP small services, debugging and testing tools that primarily use ports 20 and lower. If enabled, these services can be used to launch DoS and other attacks. All modern Cisco devices have
these disabled; Cisco's hardening rules insist on disabling unnecessary services.
Using secure protocols hardens network devices. Don't use Telnet to access a managed switch or router, for example, but use SSH so that the communication is encrypted.
Disabling unused ports on network devices enhances port security for access control.
This includes standard IP ports and device ports, both physical and virtual for the latter.

QUESTION: 246
A network administrator is redesigning network security after an attack. During the attack, an attacker used open cubicle location to attach devices to the network. The administrator wants to be able to monitor future attack 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 honeypot on the VLAN.
B. Install a BPDU guard on switchports and enable STP
C. Create a DMZ for public server and secure a segment for the internal network
D. Install antivirus software and set an ACL on the servers.

Answer: A

QUESTION: 247
A network technician installs a web server on the firewall. Which of the following methods should the technician implement to allow access to outside users without giving access to the inside network?

A. VLAN
B. DMZ
C. SNMP
D.NTP

Answer: B

QUESTION: 248
Which of the following protocols are classified as connectionless? (Select TWO)

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

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Answer: A,D
Trivial FTP (TFTP) is a connectionless file transfer program.

QUESTION: 249
A technician is connecting a PC to a switchport. At the wiring closet, the technician is identify which cable goes from patch panel a connected to the switch to patch panel B connected to the PC. Which of the following tools should the technician use to resolve the issue?

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

Answer: C

QUESTION: 250
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 bout 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 converter
D. PTP wireless

Answer: D

QUESTION: 251
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

Answer: A

QUESTION: 252
A technician needs to set up a workstation with a private static address. Which of the following IP address would meet this requirement? (Select TWO).

A. 65.78.90.102
B. 127.0.0.1
C. 169.254.90.19
D.172.16..1.103
E. 172.33.47.100

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

F. 192.168.1.55

Answer: D,E

QUESTION: 253
A network technician needs to connect to a remote router to modify the configuration, Which of the following method should the technician use to connected to the device security? (Select TWO)

A. Telnet
B. VNC
C. SSH
D. RDP
E. HTTPS
F. TFTP

Answer: B,C

QUESTION: 254
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 jack the technician?

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

Answer: A

QUESTION: 255
Which of the following are characteristic of jumbo frames? (Select TWO).

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

Answer: B,D

QUESTION: 256
Two building used to be connected by wireless bridge, but they are upgrading to fiber. Which of the following new devices would be required at the demarcation points?

A. Wireless access point
B. Router
C. Media converter

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

D. Firewall

Answer: B

QUESTION: 257
A network technician downloaded new firmware for the company firewall. Which of the following should the network technician verify to ensure the downloaded file is correct and complete?

A. File hash
B. File date
C. File type
D. File size

Answer: A

QUESTION: 258
A network administrator is performing a major to the upgrade to the network. Which of the following should the administrator use in a case of a failure?

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

Answer: A

QUESTION: 259
A technician set up a new SOHO network recently. The installed router has four Ethernet ports; however the customer has seven devices that 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.

Answer: A

QUESTION: 260
A junior technician is setting up a voice control device so the Chief Execute Officer (CEO) will be to control various things in the office. Of which of the following types of lot technologies is this an example?

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

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Answer: D

QUESTION: 261
A company has just refreshed the hardware in its datacenter with new 10G Ethernet switches wishes to set up a new storage area network but must use existing infrastructure. Which of the following storage standards should the technician use?

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

Answer: C

QUESTION: 262
A second router was installed on a network to be used as a backup for the primary router that works as a gateway. The infrastructure team does not want to change the IP address of the gateway on the devices. Which of the following network components should be used in this scenario?

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

Answer: B

QUESTION: 263
Which of the following DNS record types allows IPv6 records to be resolved to DNS names?

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

Answer: C

QUESTION: 264
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

Answer: D

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QUESTION: 265
Which of the following BEST describes an explogt?

A. A router with default credentials
B. An open mail relay server
C.A SNMPv1 private community
D.A privilege escalation script

Answer: D

QUESTION: 266
A network administrator frequency 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

Answer: D

QUESTION: 267
A technician is configuring a printer for a client. The which of the following types to the network, But is unsure how to determine its switch port. Which of the following should the technician do FIRST to locate switch port?

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

Answer: D

QUESTION: 268
Which of the following concepts would BEST describe when a company chooses to use a third-party vendor to host and administer critical application?

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

Answer: C

QUESTION: 269
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?

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A. Distance
B. bandwidth
C. Speed
D. hop count

Answer: D

QUESTION: 270
Under which of the following layers of the OSI do ATM cells operate?

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

Answer: A

QUESTION: 271
Joe, an employee at a large regional bank, wants to receive company email on his personal smartphone and table: To authenticate on the mail server, he must first a custom security application on those mobile services. Which of the following policies would BEST enforce this requirement?

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

Answer: B

QUESTION: 272
A technician is troubleshooting network connectivity issue with a remote host. Which of the following tools would BEST between the client and the remote host?

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

Answer: E, F

QUESTION: 273
A network technician is installing a new SOHO branch office that requires the use of a DOCSIScompatible. The modern needs to be connected to the ISP's network at the demark. Which of the

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following cable type should be used?

A. UTP
B. Multimode
C. Coaxial
D. Serial

Answer: C

QUESTION: 274
A administrator is troubleshooting a user's intermitted wireless connectivity issue. Other users across the hallway can connect use the wireless network properly. Upon inspection of the connection details, the administrator finds the following:

SSID	Company-WiFi
Signal	5%
SNR	2

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

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

Answer: C

QUESTION: 275
Which of the following provides two factor authentication?

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

Answer: B

QUESTION: 276
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 from vacation, the home user tries again and can connect the TV to wireless network. However, the user notice a laptop is no longer

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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.

Answer: A

QUESTION: 277
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 being blocked.
B. Change service port 636 to port 389.
C. Restart the web server.
D. Verify the browser is using port 443.

Answer: A

QUESTION: 278
Which of the following are DNS record type? (Select THREE).

A. CNAME
B. NTP
C. PTR
D. LDAP
E. DHCP
F. TTL
G. SRV
H. SSH

Answer: A,CG

QUESTION: 279
Management has requested that services be available within 72 hours of disaster, Budget is a major concern. A contract is signed with a company that has plenty space, and the technician will have the option of putting infrastructure equipment in place. Which of the following BEST describes this business continuity strategy?

A. Cold site
B. Differentiate backup
C. Hot site
D. Incremental backup
E. Warm site
F. Full backup

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Answer: A

QUESTION: 280
A critical vulnerable is discovered on a network device. The vendor state it has already patched this vulnerable 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.

Answer: B

QUESTION: 281
A network technician is installing a new wireless network in a small office. Due to environment concerns, The customer wants the network to run exclusively on the %GHz frequency. Which of the following wireless technologies should the technician install meet this requirement? (Select TWO).

A. 802.11ac
B. 802 11b
C. 802 11g
D. 802.11n
E. Bluetooth
F. z-Ware

Answer: A,D

QUESTION: 282
A network technician needs to install a new access switch. After installing the new switch, the technician beings to move connections from the old switch to the new switch. The old switch used a GBIC connectors, and the new switch uses an SEF LC with LC connectors. After connecting the SC connector to the SC-to-LC adapter abd plugging it to the switch, the link does not come up as expected. Which of the following should a network technician perform NEXT?

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

Answer: C

QUESTION: 283
A network technician notices the site-to site VPN and internet connection have back up at a branch office' after a recent power outage. Which of the following is an out-of-band method the technician the would MOST likely utilize to check the branch office's router status?

A. Use a modern to console into router.

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

Answer: B

QUESTION: 284
A network technician has recently installed new VoiP phones at all employees' desks to support a new SIP cloud solution. However, the technician is unable to make a call from the device after testing. Which of the following should the technician verify?

A. TCP 433 is allowed.
B. UDP 1720 is allowed.
C. UDP 50860 is allowed.
D.UDP 5061 is allowed.
E.TCP 8080 is allowed.
F. TCP 8181 is allowed.

Answer: C,D

QUESTION: 285
A server in a LAN was configured to act as a gateway between all company computers and an external network. Which of the following network devices offers the ability to increase both performance and security?

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

Answer: C

QUESTION: 286
A network technician receives a call branch office about problem with its wireless connectivity. The user states the office is hosting a ….metting that includes some online training with local businesses. The guest users have all brought devices to connect to the guest network at ….Branch office. All users sre connected to a single WAP and are reporting that connections keep drooping and network speeds are unusable. Which of the following is the MOST likely cause of this issue?

A. DHCP exhaustion
B. Channel overlapping
C. interference
D. Overcapacity

Answer: D

QUESTION: 287
A technician is replacing a failed SOHO router for a customer who has an existing, cable modern, and

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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 modern is placed in bridge mode, the router is placed behind the modern, and the web server is placed behind the router.
B. The router is place in bridge in mode, the modern is placed behind the router, and the web server ids placed behind the modern.
C. the web server is placed in bridge mode, the router is placed behind the server, and the modern is placed behind the router.
D. The switch is placed in bridge mode, the modern is placed behind the switch, and the router is placed behind the modern.

Answer: A

QUESTION: 288
Which of the following is networking stand-alone hardware that will permit any WIFI-compliant to connect to a wired network?

A. Wireless hub
B. Wireless firewall
C. Wireless access point
D. Wireless bridge

Answer: C

QUESTION: 289
A firewall log reports unencrypted console commands coming in on the WAN interface on the router. Inspection, port 23 is found to be ….router. Which of the following should be done to the router?

A. Block all traffic coming in on that interface.
B. Use Base64 to obfuscate the console traffic.
C. Implement a pki to authenticate clients.
D. Disable the Telnet service on the device.

Answer: A

QUESTION: 290
A network engineer planning for wireless connectivity in large office building. Currently, the office building contains both legacy and newer devices.
Which of the following wireless network routers should engineer select for the fastest throughput for all wireless devices in the office building?

A. 802.11ac
B. 802.11b
C. 802.11g
D. 802.11n

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Answer: A
https://www.forbes.com/forbes/welcome/?toURL=https://www.forbes.com/sites/gordonkelly/2014/12/30/802-11ac-vs-802-11n-wifi-whats-thedifference/&refURL=https://www.google.com.pk/&referrer=https://www.google.com.pk/

QUESTION: 291
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

Answer: D

QUESTION: 292
Which of the following networking devices operates at Layer1?

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

Answer: C

QUESTION: 293
Which of the following functions would be used to securely monitor and actively manage external connections?

A. VPN concentrator
B. HIDS
C. Load balancer
D. Packet shaper

Answer: A

QUESTION: 294
A technician has replaced the Internet gateway router, and now no users can reach the Internet. The technician can ping the router Ethernet port but not the ISP's router IP address. Which of the following is the MOST likely problem?

A. Faulty crossover cable
B. DNS server is down
C. Switching loop
D. Outside interface shutdown

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Answer: D

QUESTION: 295
Which of the following commands will display the associated IP address of a network adapter in Windows and Linux environments? (Select TWO).

A. dig
B. nslookup
C. nbstat
D. ifconfig
E. ipconfig

Answer: D,E

QUESTION: 296
When querying a DNS server for an AAAA record, which of the following is an appropriate response?

A. 192.168.2.1
B. 00:f3:82:99:a2:b8
C. 61.23.168.192.in-addr.arpa
D. 3ffe:1900:4545:3:200:f8ff:fe21:67cf

Answer: D

QUESTION: 297
A computer on VLAN 10 with the IP address of 192.168.1.45/27 cannot ping a computer on VLAN 20 with the IP address of 192.168.1.65/27. Which configuration change will allow the PING to be successful?

A. Replace the router with a Layer 2 switch that supports VLANs
B. Change VLAN 20 computers Default Gateway to 192.168.1.127/27
C. Change VLAN 10 computers Default Gateway to 192.168.1.32/27
D. AllowICMP to pass through the Router

Answer: D

QUESTION: 298
Which of the following network devices restricts traffic based on words, signatures, and URLs?

A. Layer 2 switch
B. Content filter
C. Load balancer
D. Traffic analyzer

Answer: B

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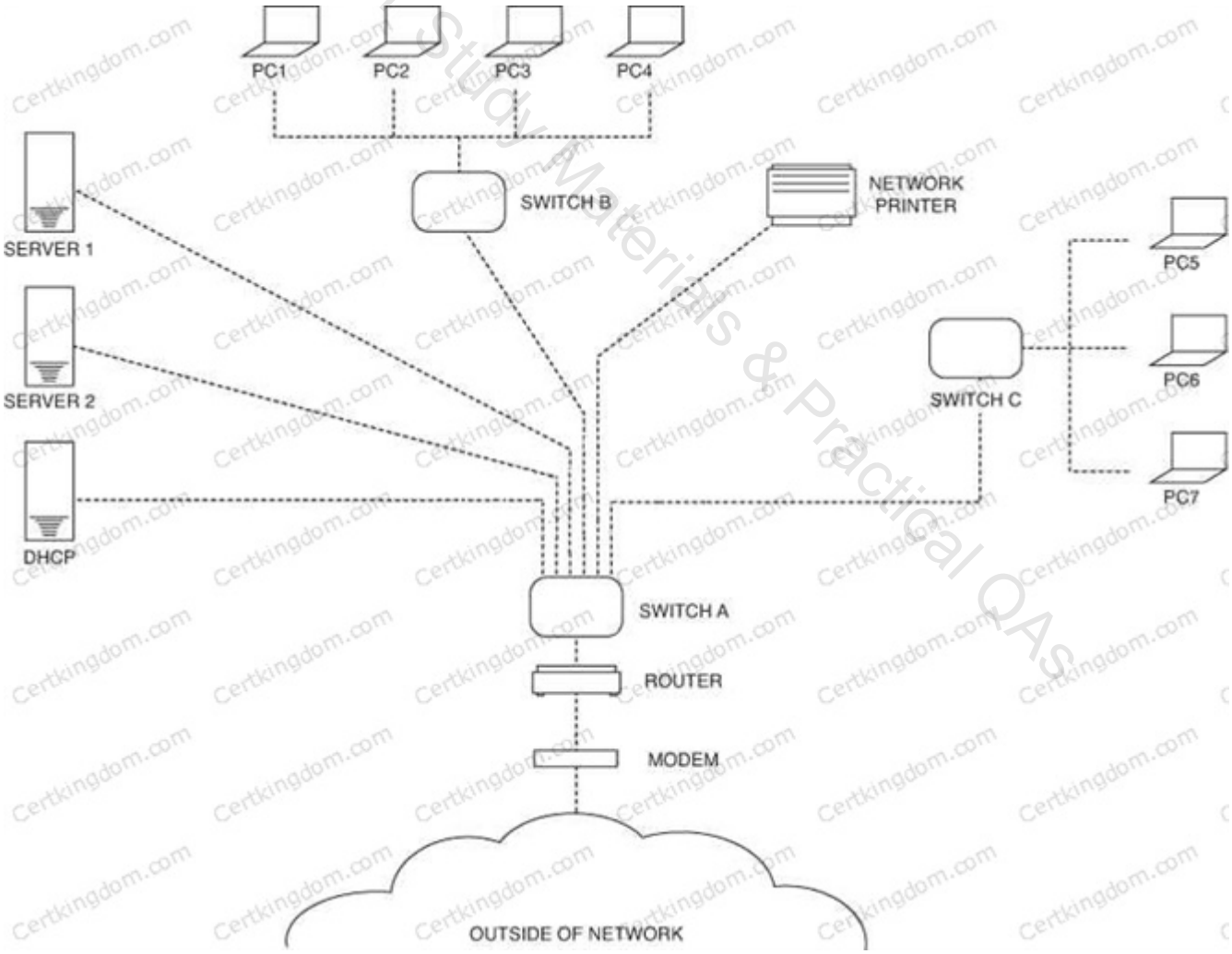
QUESTION: 299
A new firewall was recently installed blocking SMTP traffic. As a result, no one has Internet access. Which of the following has MOST likely occurred?

A. Port security is blocking all traffic.
B. An IDS is blocking all traffic.
C. Implicit deny is blocking all traffic.
D. SMTP is blocking all traffic.

Answer: C

QUESTION: 300
Please refer to the attached exhibit. Which of the following types of configuration management documentation is represented?



A. Network security policy
B. Network baseline

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C. Logical network diagram
D. Wiring schematic

Answer: C

QUESTION: 301
A user is unable to open up websites on the Internet from a browser. The administrator determines that the workstation can ping its local gateway, but not the remote web server. At which of the following layers of the OSI model does the problem MOST likely exist?

A. Data link
B. Network
C. Session
D. Physical

Answer: B

QUESTION: 302
Which of the following uses types and codes rather than ports?

A. EIGRP
B. ICMP
C. UDP
D. IPv6

Answer: B

QUESTION: 303
A technician, Joe, visits a site that has reported a network down emergency. He immediately reboots the switches and the router since the network is down. Which of the following network troubleshooting methodology steps should Joe have performed FIRST?

A. Determine if anything has changed
B. Once a theory is confirmed determine the next step is to resolve the problem
C. Implement the solution or escalate as necessary
D.

QUESTION: the obvious

Answer: A

QUESTION: 304
Which of the following defines an IP address that is NOT routed on the Internet?

A. Multicast
B. Public
C. Private

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D. Classful

Answer: C

QUESTION: 305
Matt, an administrator, notices a flood fragmented packet and retransmits from an email server. After disabling the TCP offload setting on the NIC, Matt sees normal traffic with packets flowing in sequence again. Which of the following utilities was he MOST likely using to view this issue?

A. Spam filter
B. Protocol analyzer
C. Web application firewall
D. Load balancer

Answer: B

QUESTION: 306
Which of the following specifications would Sara, an administrator, implement as a network access control?

A. 802.1q
B. 802.3
C. 802.11n
D. 802.1x

Answer: D

QUESTION: 307
Which of the following is characterized by an attacker attempting to map out an organization's staff hierarchy in order to send targeted emails?

A. Whaling
B. Impersonation
C. Privilege escalation
D. Spear phishing

Answer: A

QUESTION: 308
Which of the following defines when Pete, an attacker, attempts to monitor wireless traffic in order to perform malicious activities?

A. XSS
B. SQL injection
C. Directory traversal
D. Packet sniffing

Answer: D

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QUESTION: 309
Which of the following provides the MOST protection against zero day attacks via email attachments?

A. Anti-spam
B. Anti-virus
C. Host-based firewalls
D. Patch management

Answer: A

QUESTION: 310
Which of the following access controls enforces permissions based on data labeling at specific levels?

A. Mandatory access control
B. Separation of duties access control
C. Discretionary access control
D. Role based access control

Answer: A

QUESTION: 311
A username provides which of the following?

A. Biometrics
B. Identification
C. Authorization
D. Authentication

Answer: B

QUESTION: 312
Use of group accounts should be minimized to ensure which of the following?

A. Password security
B. Regular auditing
C. Baseline management
D. Individual accountability

Answer: D

QUESTION: 313
Privilege creep among long-term employees can be mitigated by which of the following procedures?

A. User permission reviews
B. Mandatory vacations
C. Separation of duties
D. Job function rotation

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Answer: A

QUESTION: 314
Which of the following wireless standards is capable of ONLY operating on 5.8GHz?

A. 802.11a
B. 802.11b
C. 802.11g
D. 802.11n

Answer: A

QUESTION: 315
Which of the following protocols are used to connect devices in a secure manner? (Select TWO).

A. TELNET
B. SSH
C. RDP
D. HTTP
E. DNS
F. FTP

Answer: B,C

QUESTION: 316
Which of the following provides the use of a secure tunnel for telecommuting without manually installing and configuring encryption software?

A. RDP
B. SSL VPN
C. ISAKMP
D. TLS 2.0

Answer: B

QUESTION: 317
Which of the following is based ENTIRELY on using ICMP packets?

A. Social engineering
B. NMAP
C. Buffer overflow attack
D. Smurf attack

Answer: D

QUESTION: 318
Which of the following could be used to stop unknown threats?

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A. DMZ
B. Signature based IPS
C. Behavior based IPS
D. Honeypots

Answer: C

QUESTION: 319
Which of the following describes a DNS server?

A. Translates an IP address to a name
B. Caches commonly viewed web pages
C. Assigns IP addresses to network devices
D. Provides port security for a network

Answer: A

QUESTION: 320
A technician is troubleshooting a problem with a network printer. The technician thinks the network printer is out of paper and ink. Which of the following should the technician do NEXT?

A. Implement the solution
B.

QUESTION: users
C. Test the theory
D. Escalate the problem

Answer: C

QUESTION: 321
A company has just installed wireless in their office. In one corner of the office building users are not able to establish a connection. Which of the following can be changed on the AP to help resolve this issue?

A. SSID
B. Channels
C. Signal strength
D. Encryption

Answer: C

QUESTION: 322
Which of the following cable types have a rated MAXIMUM bandwidth of 100Mbps?

A. CAT3
B. CAT5

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IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

C. CAT5e
D. CAT6

Answer: B

QUESTION: 323
A company has installed an access point and configured it to broadcast at 802.11n only. Some users are stating that they cannot connect to this access point. Which of the following is the MOST likely reason some users cannot connect?

A. Incorrect channel
B. Weak encryption
C. Incompatible NICs
D. Incorrect SSID

Answer: C

QUESTION: 324
Which of the following will allow multiple frequencies to be combined?

A. WiMAX
B. MPLS
C. MIMO
D. Channel bonding

Answer: D

QUESTION: 325
Which of the following technologies is required to allow all ports of a single private IP to be publically accessible via a single public IP?

A. NAT
B. RIP
C. PAT
D. ACL

Answer: C

QUESTION: 326
Which of the following allows a technician to gather information about the operating system?

A. Domain services
B. Fingerprinting
C. Countermeasures
D. Reconnaissance

Answer: B

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QUESTION: 327
Which of the following is indicative of an FTP bounce?

A. Arbitrary IP address
B. Reverse DNS lookups
C. Same Port Number
D. File Transfer Success

Answer: A

QUESTION: 328
The software that allows a machine to run multiple operating systems at once is called the:

A. Server manager
B. Hypervisor
C. Boot loader
D. Partition manager

Answer: B

QUESTION: 329
Which of the following routing protocols relies on hop count as its ONLY metric?

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

Answer: D

QUESTION: 330
A workstation on the network is configured as follows. A user reports that they are unable to print to a device located on a different subnet. Which of the following is the MOST likely problem?
IP address: 172.16.204.12
Subnet Mask: 255.255.0.0
Default Gateway: 172.15.204.254
DNS address: 172.16.204.1
Broadcast address: 172.16.255.255

A. DNS address
B. Subnet mask
C. Default gateway
D. Broadcast address
E. IP address

Answer: C

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QUESTION: 331
A technician recently fixed a computer with several viruses and spyware programs on it and notices the Internet settings were set to redirect all traffic through an unknown proxy. This type of attack is known as which of the following?

A. Phishing
B. Social engineering
C. Man-in-the-middle
D. Shoulder surfing

Answer: C

QUESTION: 332
Which of the following is the BEST way to mitigate security threats on a network?

A. Social engineering
B. User training
C. Incident response
D. Man-in-the- middle

Answer: B

QUESTION: 333
Which of the following devices should be installed on a network to monitor the presence of and actively defend against attacks?

A. An IPS
B. A protocol analyzer
C. A traffic shaper
D. An IDS

Answer: A

QUESTION: 334
Which of the following is an IPv6 address?

A. 00:14:38:05:7B:E5
B. 10.10.1.1
C. 192.168.1.1
D. 2001:cdba::3257:9652

Answer: D

QUESTION: 335
A company has a large number of employees that need VPN access from home. Which of the following is the BEST solution for deploying and managing the remote access?

A. Site-to-site VPN

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B. Network-based firewall
C. SSL VPN
D. Host-based firewall

Answer: C

QUESTION: 336
Which of the following is a routed protocol that functions at layer 3 of the OSI model?

A. IP
B. Frame relay
C. PPP
D. ADSL

Answer: A

QUESTION: 337
Something you have, something you are, and something you know are the three tenets of:

A. Social engineering
B. Change management
C. Remote access
D. Access control

Answer: D

QUESTION: 338
A firewall that operates at Layer 7 of the OSI model is known as a(n):

A. Circuit gateway
B. Packet filter
C. Application level
D. Redundant firewall

Answer: C

QUESTION: 339
Which of the following allows a central point to simultaneously address other points without addressing all of them?

A. Multicast
B. Subnetting
C. Unicast
D. Broadcast

Answer: A

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QUESTION: 340
Which of the following WAP security features offers the STRONGEST encryption?

A. WPA
B. WPA2
C. WEP
D. Hidden SSID

Answer: B

QUESTION: 341
Which of the following standards can operate at both the 2.4GHz and 5GHz frequencies?

A. 802.11a
B. 802.11b
C. 802.11g
D. 802.11n

Answer: D

QUESTION: 342
Which of the following mediums is circuit switched?

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

Answer: A

QUESTION: 343
Which of the following is true about tunneling and encryption?

A. SIP encrypts all data going through the tunnel.
B. PPTP creates a secure tunnel.
C. SSL VPN provides a secure tunnel.
D. RAS is a secure way to create a tunnel.

Answer: C

QUESTION: 344
Which of the following is a secure way to connect to a device?

A. RSH
B. TFTP
C. SNMPv2
D. SFTP

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Answer: D

QUESTION: 345
Which of the following connector types would Sandy, a network technician, use to connect a serial cable?

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

Answer: D

QUESTION: 346
Which of the following are network topologies? (Select TWO).

A. Ethernet
B. Duplex
C. Star
D. Circular
E. Bus

Answer: C,E

QUESTION: 347
Which of the following uses eight groups of characters for addressing?

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

Answer: C

QUESTION: 348
A pest control contractor attempts to gain access to the datacenter; however, the manager on duty notes that a pest control inspection was not on the schedule. Which of the following attacks is in progress?

A. Phishing
B. Social engineering
C. Man-in-the-middle
D. Smurfing

Answer: B

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QUESTION: 349
Which of the following is the MOST economical way for Sandy, a technician, to implement 10- Gigabit Ethernet at a datacenter?

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

Answer: D

QUESTION: 350
Which of the following is the network topology in which computers connect in a closed circle?

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

Answer: C

QUESTION: 351
Which of the following protocols would Kurt, a technician, use to synchronize local date and time of a client workstation to that of a server?

A. RTP
B. NTP
C. TFTP
D. ARP

Answer: B

QUESTION: 352
An administrator is replacing an existing WAP because the customer is reporting that the connection speeds are too slow. Which of the following should be installed?

A. 802.11a
B. 802.11b
C. 802.11g
D. 802.11n

Answer: D

QUESTION: 353
Which of the following cables has the MOST twists per inch?

A. CAT3
B. CAT5

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

C. CAY5e
D. CAT6

Answer: D

QUESTION: 354
Which of the following is true about an IP address if the first bit is a one and the second bit is a zero?

A. The address is a Class A address.
B. The address is a Class B address.
C. The address is a Class C address.
D. The address is a Class D address.

Answer: B

QUESTION: 355
Which of the following cables is MOST likely to be terminated into a patch panel?

A. Serial
B. RG-6
C. RG-59
D. CAT6

Answer: D

QUESTION: 356
Which of the following MUST be kept synchronized in order for Kerberos to work?

A. Certificate
B. Ticket
C. Time
D. Token

Answer: C

QUESTION: 357
Which of the following MUST be used when securing a VoIP network consisting of private IP addresses?

A. IPS
B. Application layer firewall
C. IDS
D. An unmanaged switch

Answer: B

QUESTION: 358
Which of the following uses certificates as a form of security?

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A. Kerberos
B. LDAP
C. PKI
D. CHAP

Answer: C

QUESTION: 359
Which of the following cables will MOST likely be used to connect to a satellite dish?

A. RG-6
B. CAT5e
C. Fiber
D. CAT6

Answer: A

QUESTION: 360
A VoIP line will MOST likely have which of the following connectors?

A. RJ-11
B. DB-25
C. BNC
D. RJ-45

Answer: D

QUESTION: 361
Which of the following is a proprietary routing protocol?

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

Answer: B

QUESTION: 362
Which of the following is an invalid MAC address?

A. AA:CE:58:FD:90:08
B. 44:98:3E:F8:33:23
C. 56:AD:BX:89:55:54
D. 94:9E:FE:EE:8C:DF

Answer: C

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QUESTION: 363
Which of the following network topologies allows only communication to take place from one node at a time by passing a token around the network?

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

Answer: D

QUESTION: 364
A technician discovers that a malware infection has damaged part of the Windows TCP/IP stack. Which of the following commands can help repair the damage?

A. netsh lan
B. netsh interface
C. netsh wlan
D. netsh winsock

Answer: D

QUESTION: 365
Which of the following devices exist as either hardware or software to assist in routing traffic? (Select TWO).

A. Cable modern
B. Layer 2 switch
C. Router
D. NIDS
E. Layer 3 switch

Answer: C,E

QUESTION: 366
Which of the following operates at OSI layer 2 to forward traffic based on the MAC address?

A. Switch
B. Proxy Server
C. Router
D. VPN Concetnrator

Answer: A

QUESTION: 367
The Transport Layer of the TCP/IP model corresponds to which of the following layers of the OSI model?

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A. 1
B. 3
C. 4
D. 5

Answer: C

QUESTION: 368
Which of the following is used to provide hot standby capabilities using paired routers?

A. CARP
B. L2TP
C. PPTP
D. ISAKMP

Answer: A

QUESTION: 369
Which of the following is used to assign an IP address to a device?

A. DHCP
B. NTP
C. DNS
D. RADIUS

Answer: A

QUESTION: 370
Which of the following protocols is used to transmit outgoing email?

A. RDP
B. NTP
C. POP3
D. SMTP

Answer: D

QUESTION: 371
A network technician is configuring a wireless network. To avoid interference from other wireless networks in the area, the technician should change which setting?

A. Channel
B. SSID
C. Firewall rule
D. Encryption

Answer: A

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IT Study Materials & Practical QAs

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QUESTION: 372
A user is unable to print to a network printer. Which of following is the FIRST step that a technician should take to troubleshoot the issue?

A. Identify the problem.
B. Establish a plan of action to resolve the problem.
C. Establish a theory of probable cause.
D. Implement preventative measures.

Answer: A

QUESTION: 373
Which of the following is a purpose of a VLAN?

A. Decreases bandwidth on a network
B. Segments broadcast traffic
C. Increases port speed
D. Allows another connection to the router

Answer: B

QUESTION: 374
Which of the following would Sandy, a technician, find in a network map?

A. QoS standards
B. MDF/IDFs
C. System logs
D. Firewall rules

Answer: B

QUESTION: 375
Which of the following protocols would be used to send email to an email server?

A. NTP
B. FTP
C. SNMP
D. SMTP

Answer: D

QUESTION: 376
Which of the following default ports would need to be open on a firewall to allow remote desktop access?

A. 143
B. 443
C. 3389

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IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

D. 8080

Answer: C

QUESTION: 377
After plugging a cable into a computer, a user reports there is no network access. Which of the following tools would the technician MOST likely check to verify that the cable was crimped correctly?

A. Punch down tool
B. Cable certifier
C. Loopback plug
D. Toner probe

Answer: B

QUESTION: 378
Which of the following DNS records would allow for a website to have more than one FQDN?

A. TXT
B. PTR
C. MX
D. CNAME

Answer: D

QUESTION: 379
A small office home office (SOHO) customer is going to be replacing their switch. The customer also wants to add a WAP in a dropped ceiling; however, there are no power outlets above the drop ceiling, but there is a CAT5e network jack. Which of the following technologies should the new switch have to allow this WAP to be placed where the customer requests, without any other major changes to the environment?

A. PoE
B. Layer 3 switching
C. STP
D. VLAN

Answer: A

QUESTION: 380
Tenants access multiple wireless networks in a building. Users report intermittent connectivity. Which of the following is the MOST likely cause of the problem?

A. The channels are overlapping with other wireless networks and should be changed.
B. The SSIDs are incompatible and should be renamed.
C. The users have incompatible wireless network cards and should upgrade.
D. The default idle period for logoff is too short and should be changed to a longer limit.

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Answer: A

QUESTION: 381
Which of the following BEST describes how a layer 2 switch functions?

A. Switches packets within the same subnet based on MAC addresses
B. Switches packets between different subnets based on IP addresses
C. Switches packets between different subnets based on MAC addresses
D. Switches packets between different subnets based on MAC addresses

Answer: A

QUESTION: 382
Jeff, a technician, has been asked to add a subnet to the company's LAN. Which of the following interfaces on the router will be modified?

A. FastEthernet 0/0
B. AUX 0
C. Console 0
D. Serial 0/0/0

Answer: A

QUESTION: 383
Jeff, a network engineer, is troubleshooting an issue where clients are not receiving IP addresses from a new, properly configured DHCP server on another subnet. Statically addressed clients can get onto the same network with no issues. Which of the following is causing the issue?

A. Incorrect VLAN tagging
B. Missing helper addresses
C. Wrong default gateway
D. Improper routing protocols

Answer: B

QUESTION: 384
Which of the following subnet masks would allow for 192.168.0.3 and 192.168.0.240 to be in the same subnet?

A. 255.255.255.0
B. 255 255.255.128
C. 255.255.255.192
D. 255.255.255.248

Answer: A

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QUESTION: 385
Jeff, an administrator, has just finished installing a new switch and connected two servers with IPs of 192.168.105.20 and .30. The servers are able to communicate with each other, but are unable to reach the Internet. Jeff sees the following information in the switch configuration:
interface VLAN 105
IP address 192.168.105.5 255.255.255.0
Jeff is able to ping the router at 192.168.105.1 from the switch. Which of the following is the MOST likely cause of the problem?

A. The subnet mask is incorrect.
B. A routing loop has occurred.
C. Jeff used a crossover cable to connect the switch to the gateway.
D. The server is missing default-gateway information.

Answer: D

QUESTION: 386
Kim, a user, took a laptop on vacation and made changes to the configuration in order to use the device at the hotel. She can reach the Internet, but cannot access any internal network resources. Which of the following is the MOST likely reason?

A. Incorrect DNS
B. Incorrect subnet mask
C. Duplicate IP address
D. Incorrect SSID

Answer: A

QUESTION: 387
Which of the following is the default subnet mask for a Class B address?

A. 255.0.0.0
B. 255.255.0.0
C. 255.255.255.0
D. 255.255.255.255

Answer: B

QUESTION: 388
Which of the following default ports would need to be disabled to block TFTP traffic?

A. 20
B. 21
C. 69
D. 123

Answer: C

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QUESTION: 389
Which of the following ports would Zach, a technician, need to open on a firewall to allow SSH on the default port?

A. 20
B. 21
C. 22
D. 23

Answer: C

QUESTION: 390
Which of the following ports is the default telnet port?

A. 20
B. 21
C. 22
D. 23

Answer: D

QUESTION: 391
Which of the following ports would have to be allowed through a firewall to allow SNMP traffic to pass on its default port? (Select TWO).

A. 22
B. 23
C. 143
D. 161
E. 162
F. 8080

Answer: D,E

QUESTION: 392
Which of the following has a maximum transfer rate of 54Mbps and operates at the 5GHz frequency?

A. 802.11a
B. 802.11b
C. 802.11g
D. 802.11n

Answer: A

QUESTION: 393
Kim, a network technician, is installing an 802.11n network. Which of the following should Kim enable to ensure that the network only allows 802.11n clients?

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A. Name the SSID on the 802.11n network only
B. Limit the DHCP address pool
C. Disable 802.11b and 802.11g
D. Only use WPA encryption

Answer: C

QUESTION: 394
Zach, a technician, is installing an 802.11n network. Which of the following should he disable to stop broadcasting the network name?

A. Channel
B. WEP
C. SSID
D. WPA

Answer: C

QUESTION: 395
Which of the following default services uses TCP/UDP port 88?

A. LDAP
B. IGMP
C. HTTP
D. Kerberos

Answer: D

QUESTION: 396
Which of the following ports should be allowed through a firewall to allow DNS resolution to occur to an outside DNS server?

A. 20
B. 53
C. 80
D. 3389

Answer: B

QUESTION: 397
Which of the following uses port 53 by default?

A. RDP
B. QoS
C. DHCP
D. DNS

Answer: D

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IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

QUESTION: 398
Which of the following ports does DHCP use? (Select TWO).

A. 22
B. 23
C. 67
D. 68
E. 69

Answer: C, D

QUESTION: 399
Lisa, a network administrator, needs to allow all websites to be accessible by the sales team for business purposes. Which of the following ports need to be enabled on the firewall? (Select TWO).

A. 23
B. 25
C. 53
D. 80
E. 443

Answer: D, E

QUESTION: 400
Lisa, a technician, is asked to not allow FTP traffic on a network. Which of the following ports should be blocked on the firewall to achieve this?

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

Answer: A

QUESTION: 401
Which of the following ports are MOST commonly used to interactively configure a networking device? (Select TWO).

A. 21
B. 22
C. 23
D. 53
E. 67

Answer: B,C

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

QUESTION: 402
In order to reduce spam email, Kim, a network administrator, changes the standard SMTP port from which of the following port numbers to port number 587?

A. 20
B. 21
C. 23
D. 25

Answer: D

QUESTION: 403
A company would like all HTTP traffic to filter through a proxy server on port 8080. Which of the following port numbers needs to be redirected through the proxy server to accomplish this?

A. 20
B. 80
C. 143
D. 443

Answer: B

QUESTION: 404
A company wants to only allow incoming HTTP and HTTPS traffic on their public wireless network. Which of the following port numbers should be the only allowed open ports on the firewall to accomplish this? (Select TWO).

A. 20
B. 80
C. 143
D. 443
E. 8080

Answer: B,D

QUESTION: 405
An organization has installed a new firewall. Users need to have access to remote websites and must be able to use SSH to retrieve files from remote locations. Which of the following actions should be taken on the new firewall? (Select TWO).

A. Allow UDP port 21 outbound
B. Allow UDP port 22 outbound
C. Allow UDP port 80 outbound
D. Allow TCP port 21 outbound
E. Allow TCP port 22 outbound
F. Allow TCP port 80 outbound

Answer: E,F

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IT Study Materials & Practical QAs
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QUESTION: 406
An organization recently installed a firewall on the network. Employees must have access to their work computer from their home computer. In which of the following ways should the firewall be configured?

A. Allow TCP port 3389 outbound
B. Allow UDP port 3389 inbound
C. Allow UDP port 3389 outbound
D. Allow TCP port 3389 inbound

Answer: D

QUESTION: 407
An organization recently installed a firewall on the network. Employees must be able to send and receive email from a POP3 server. In which of the following ways should the firewall be configured? (Select TWO).

A. Allow TCP port 23
B. Allow TCP port 25
C. Allow TCP port 110
D. Allow UDP port 25
E. Allow UDP port 110

Answer: B,C

QUESTION: 408
Which of the following protocols uses port 3389?

A. IMAP
B. DHCP
C. SSH
D. RDP

Answer: D

QUESTION: 409
Kurt, a network technician, has configured a new firewall on the network. Users are reporting errors when attempting to access several websites. Kurt attempts to access several popular websites with no errors, however, he does receive an error when attempting to access a bank website. Which of the following rules would BEST allow access to the bank website?

A. Allow UDP port 53
B. Allow TCP port 80
C. Allow UDP port 340
D. Allow TCP port 443

Answer: D

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IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

QUESTION: 410
attempting to access a popular website. Which of the following will MOST likely correct the error?

A. HTTP uses UDP
B. DNS port 23 needs to be allowed
C. HTTP needs port 443 allowed
D. UDP port 53 needs to be allowed

Answer: D

QUESTION: 411
A network technician needs to address bandwidth issues on the wireless network. There are currently four 802.11n access points. The technician would like to increase the bandwidth. Which of the following would be the BEST solution?

A. Disable SSID
B. Channel bonding
C. MIMO
D. Increase the signal

Answer: B

QUESTION: 412
An administrator is receiving reports from an executive that the executive's wireless access point loses the signal frequently, even though the WAP is on the executive's desk. The office contains four other 802.11n access points. Which of the following would MOST likely correct interference problems in the executive's office?

A. Turn off SSID broadcasting for the executive's access point
B. Replace the 802.11n access point in the office with an 802.11a access point.
C. Change the channel on the access point to channel 11.
D. Turn off as many lights in the executive's office as possible to reduce interference.

Answer: C

QUESTION: 413
A network technician needs to install an additional access point to the company's wireless network. The network has two 802.11b access points. Which of the following channels should be used to allow the access point's coverage areas to overlap?

A. 1, 6, 11
B. 2, 5, 10
C. 3, 13, 23
D. 4, 8, 16

Answer: A

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IT Study Materials & Practical QAs

IT Study Materials & Practical QAs

QUESTION: 414
Kim, a network administrator, is seeing workstations in building C authenticate to the building A wireless access point. Which of the following would resolve this issue?

A. Change the security method
B. Reduce the transmission power
C. Change the SSID
D. Change the frequency

Answer: B

QUESTION: 415
An 801.11g wireless access point was configured as follows:
- AP encryption forced to WPA2-AES mode only
- MAC address filtering enabled with the following MAC address in the allow list: 00-ab-29-da-c3-40
Which is true about the above configuration?

A. Any 802.11b/g compatible client can connect to the wireless network if they support TKIP, the MAC address is 00-ab-29-da-c3-40, and the encryption key is known by the client.
B. An 802.11a compatible client can connect to the wireless network only if its MAC address is 00-ab-29-da-c3-40 and the encryption key is known by the client.
C. An 802.11n compatible client can connect to the wireless network only if its MAC address is 00-ab-29-da-c3-40 and the encryption key is known by the client.
D. Any 802.11g compatible client can connect to the wireless network if the encryption key is known by the client.

Answer: C

QUESTION: 416
Jeff, a business owner, has discovered that several of the nearby businesses have wireless networks. Jeff wants to implement a unique wireless network inside the business. Which of the following should be configured on the wireless access point to reduce interference from the other wireless networks?

A. PPPoE authentication
B. MAC filtering
C. WPA encryption
D. Wireless channel

Answer: D

QUESTION: 417
A company only wants preapproved laptops to be able to connect to a wireless access point. Which of the following should be configured?

A. SSID disable
B. ACL rules
C. WPA encryption

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D. MAC filtering

Answer: D

QUESTION: 418
company wants the public to be able to connect to the wireless network with minimal security, but not be able to connect to the private internal network. Which of the following firewall rules would BEST accomplish this?

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

Answer: C

QUESTION: 419
Which of the following occurs when antenna gain is increased on an access point?

A. Connection speeds decrease
B. Throughput decreases
C. Cell size increases
D. Attenuation increases

Answer: C

QUESTION: 420
Which of the following technologies allows more than two transceivers with an access point?

A. MIMO
B. FIFO
C. 802.1x
D. WPA

Answer: A

QUESTION: 421
Jeff, a customer, has a wireless network and has reported that the network traffic from the wireless access points seems high compared to the limited number of wireless devices used. Jeff believes that other non-employees are using the wireless network to access the Internet. Which of the following could be used to limit the access to the wireless network? (Select TWO).

A. WPA encryption
B. Changing wireless channels
C. MAC filtering
D. Changing wireless speed standards
E. SSID disable

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

Answer: A,C

QUESTION: 422
Kim, a technician, is configuring an 802.11n access point. Other WAPs on the network use 802.11b. Which of the following will Kim have to setup to make sure these WAPs will be able to communicate?

A. Enable mixed mode
B. Disable SSID
C. Disable encryption
D. Enable `n' only mode

Answer: A

QUESTION: 423
Lisa, an administrator, has set up an 802.11n wireless network. Users with 802.11n laptops have reported that speeds are slow. After testing, Lisa determines that users max out at 802.11g speeds. Which of the following would MOST likely fix this issue?

A. Enable wireless multimedia (WMM) for QoS
B. Use the 40MHz channels in the 2.4GHz band
C. Enable access point antenna isolation
D. Limit the clients to 802.11g compatible laptops

Answer: A

QUESTION: 424
Zach, a network administrator, needs to purchase a new switch to support VoIP phones and wireless access points in a new building. Which of the following features are the MOST important for the new switch to support?

A. PoE and QoS
B. LACP and OSPF
C. 802.1x and 802.11n
D. NAT and VTP

Answer: A

QUESTION: 425
Which of the following would Kim, a technician, do to monitor remote traffic through an access point?

A. Enable an SNMP agent
B. Enable network mapping
C. Set monitoring SSID
D. Select WPA2

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

Answer: A

QUESTION: 426
Which of the following solutions will detect and disable a rogue access point?

A. Port scan
B. Packet sniffer
C. IPS
D. IDS

Answer: C

QUESTION: 427
When configuring a wireless access point, Zach, a network administrator, needs to determine the MAC address of a local printer. Which of the following commands would be MOST helpful in determining the MAC address?

A. ping
B. arp
C. route
D. dig

Answer: B

QUESTION: 428
Kim, the client, has requested a cost-effective network solution to accommodate the ability to reconfigure the office space as needed. Which networking solution would provide the BEST solution?

A. Private IP Addressing
B. Wireless Access Points
C. Wide Area Networking
D. Virtual Local Area Networks

Answer: B

QUESTION: 429
A SOHO office recently installed a wireless network for employees to use during lunch breaks. As such, the access point was placed in the kitchen area by the microwave. Employees have been reporting intermittent connectivity when using the wireless network. Which of the following would BEST improve connectivity?

A. Disable SSID broadcast
B. Increase the signal strength
C. Move the access point
D. Change the broadcast channel

Answer: C

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

QUESTION: 430
A SOHO with ten Wi-Fi equipped laptops needs a new network installed. Which of the following items would be used to setup the office using a new DSL line? (Select TWO).

A. Router
B. Wi-Fi Access point
C. Cable modem
D. Ten WiMAX adapters
E. Ten CAT6 patch cables

Answer: A, B

QUESTION: 431
Which of the following security threats relies primarily on user deception and misinformation?

A. Rogue access points
B. DoS attacks
C. Man-in-the-middle attacks
D. Phishing

Answer: D

QUESTION: 432
At which of the following layers of the OSI model do packets exist?

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

Answer: A

QUESTION: 433
A company is having a new T1 line installed. Which of the following will the connection MOST likely terminate to?

A. Core switch
B. MDF
C. Ethernet router
D. IDF

Answer: B

QUESTION: 434
A network technician performs several switch commands to enable various advanced features on the switch in the accounting department. During the configuration changes, several users from this department report connectivity issues. Which of the following logs would the network technician

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IT Study Materials & Practical QAs
IT Study Materials & Practical QAs

need to analyze to troubleshoot the connectivity issues?

A. Router logs
B. History logs
C. Startup/bootup config logs
D. Event Viewer logs

Answer: B

QUESTION: 435
A technician needs to test the length of a newly installed cable run because it is believed that it exceeds the maximum specification length. Which of the following tools should be used?

A. Cable certifier
B. Toner probe
C. Cable tester
D. Protocol analyzer

Answer: A

QUESTION: 436
Which of the following layers of the OSI model is between the Data Link and Transport layers?

A. Application
B. Session
C. Network
D. Physical

Answer: C

QUESTION: 437
A network technician configures a firewall to block only certain IP addresses from accessing the Internet. All users are reporting that they are unable to access the Internet.
Which of the following is the MOST likely reason?

A. Incorrectly configured ACL
B. Implicit allow statement
C. SMTP requests are being denied
D. All protocols are being allowed in

Answer: A

QUESTION: 438
A technician wants to connect a new wireless router to a main network switch. Which of the following cable types would MOST likely be used to establish this connection?

A. Telephone
B. Parallel

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C. Serial
D. CAT6

Answer: D

QUESTION: 439
Zach, a technician, wants to test a laptop's NIC for functionality but has no other networking equipment to attach it to.
Which of the following would allow him to test basic functionality of the NIC?

A. Loopback plug
B. Protocol analyzer
C. Smart jack
D. Coupler

Answer: A

QUESTION: 440
A new user is reporting connectivity issues. Zach, the network technician, notices that there is no link light on the user's NIC. Which of the following would be used to verify the wiring back to the patch panel?

A. Butt set
B. Cable certifier
C. Toner probe
D. Snips

Answer: B

QUESTION: 441
Zach, a network technician, is unable to remotely manage or ping certain layer 2 switches. To manage those devices remotely, which of the following will MOST likely need to be configured?

A. IP address on the native VLAN interface
B. Port security
C. Port forwarding
D. IP addres on the fiber interface

Answer: A

QUESTION: 442
Which of the following devices is used to distribute network traffic equally over multiple links?

A. Content filter
B. DNS server
C. Load balancer
D. Proxy server

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

Answer: C

QUESTION: 443
Lisa, a technician, has configured a new switch that is remotely accessed using SSH. The switch is working properly but cannot be accessed remotely. Which of the following items is MOST likely missing in the configuration?

A. Port speed
B. Cryptokey
C. Data VLAN
D. NAT/PAT

Answer: B

QUESTION: 444
Zach, a technician, needs to terminate a CAT5e Ethernet cable to a 110 block.
Which of the following tools should he use?

A. Toner probe
B. Punch down
C. Wire tester
D. Crimper

Answer: B

QUESTION: 445
Which of the following protocols is used for remote management of devices?

A. SNMP
B. TFTP
C. Syslog
D. SMTP

Answer: A

QUESTION: 446
A mobile user is no longer able to access network resources. Jeff, the network technician, is unable to ping the user's workstation. Which of the following commands would MOST likely be used on that workstation to verify its current network settings?

A. net share
B. hostname
C. ipconfig
D. tracert

Answer: C

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QUESTION: 447
Which of the following methods limits access to a network based on characteristics of the network card?

A. IP filtering
B. MAC filtering
C. Port filtering
D. Encryption

Answer: B

QUESTION: 448
An administrator is troubleshooting analog telephony issues on the punch down block. Which of the following tools would be MOST useful in this scenario?

A. T1 loopback
B. Butt set
C. Multimeter
D. Protocol analyzer

Answer: B

QUESTION: 449
Which of the following protocols is used to allow multiple hosts to share a common IP address?

A. HTTPS
B. ARP
C. CARP
D. NAT

Answer: D

QUESTION: 450
Which of the following tools can the technician use to analyze TCP/IP packets when trying to determine a connection problem within a subnet?

A. Wire mapper
B. Protocol analyzer
C. Cable tester
D. SYSLOG server

Answer: B

QUESTION: 451
Which of the following is the prefix for a link-local IPv6 address?

A. FE80::/10
B. FF00::/8

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C. 2FFE::/16
D. FEEF:/12

Answer: A

QUESTION: 452
Which of the following could be used to estimate RTT across a router?

A. Dig
B. Traceroute
C. Arp
D. Uptime

Answer: B

QUESTION: 453
Which of the following does the IP address 169.254.222.10 indicate?

A. No DHCP server connectivity
B. The DNS server is unavailable
C. Firewall issue
D. Duplicate IP addresses are found

Answer: A

QUESTION: 454
Which of the following BEST describes the difference between layer 2 switching and layer 2 routing?

A. Switching moves packets between hosts on different subnets, and routing moves packets between hosts on the same subnet.
B. Routing moves packets between hosts on different subnets, and switching moves packets between hosts on the same subnet.
C. Both routing and switching move packets between hosts on the same subnet, but routing does so at a faster pace.
D. Both routing and switching move packets between hosts on different subnets, but switching does so at a faster pace.

Answer: B

QUESTION: 455
Which of the following problems is MOST likely to arise when configuring an IPv6 over IPv4 tunnel?

A. Routing loop
B. MTU black hole
C. Framing errors
D. SYN flood

Answer: B

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QUESTION: 456
Kim, a technician, needs to locate a cable in an unorganized wiring closet. Which of the following tools will help her locate the cable?

A. Protocol analyzer
B. Cable tester
C. Toner probe
D. Punch down tool

Answer: C

QUESTION: 457
Which of the following separates broadcast domains?

A. Port mirroring
B. Router
C. Convergence
D. Switch

Answer: B

QUESTION: 458
A national cable company providing TV, telephone, and Internet service to home users over its IP network, has been tracking a large increase of network bandwidth due to P2P file sharing. Which of the following should the company deploy to ensure excellent TV and telephone service?

A. QoS
B. Load balancing
C. High availability
D. Fiber optics

Answer: A

QUESTION: 459
Jeff, a technician, is charged with setting up network monitoring for critical devices in the network. It is important the information be sent securely to the monitoring station. Which of the following protocols will support secure transmission of the data?

A. SNMP v2
B. VPN
C. SYSLOG
D. SMTP

Answer: A

QUESTION: 460
Keeping an authoritative and timely record of network devices and their settings is a key activity of

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which of the following?

A. Project management
B. Quality of service
C. Configuration management
D. Bandwidth shaping

Answer: C

QUESTION: 461
Which of the following technologies could be implemented to improve call clarity when using VoIP technology?

A. Static IP addressing
B. Caching engines
C. QoS
D. Port forwarding

Answer: C

QUESTION: 462
A customer has not been using security on a wireless network and has recently received many attacks through this vector.
Which of the following would be the MOST secure way to harden this wireless network?

A. Disable the SSID
B. WPA encryption
C. VLAN implementation
D. WEP encryption

Answer: B

QUESTION: 463
Which of the following needs to be configured on a switch to use a packet sniffer?

A. Port trunking
B. Port mirroring
C. Tagged VLAN
D. Untagged VLAN

Answer: B

QUESTION: 464
A network administrator notices that all of the company switches are running at capacity on a given day, which is abnormal according to network baselines taken recently. Which tool would BEST allow the administrator to inspect what type of traffic is on the network?

A. Wire tap

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B. Network sniffer
C. Load balancing appliance
D. NIPS

Answer: B

QUESTION: 465
Lisa, a technician, is tasked to monitor various analog POTS lines for voice activity. Which of the following hardware tools would be used?

A. Butt set
B. Toner probe
C. Wire mapper
D. Cable certifier

Answer: A

QUESTION: 466
An organization wants to perform maintenance on any of its web servers without affecting the service availability during a scheduled change window. Which of the following network devices would be required to provide this functionality?

A. Router
B. Forward proxy
C. Load balancer
D. Firewall

Answer: C

QUESTION: 467
Which of the following communication modes has the LOWEST overhead necessary to support streaming protocols such as RTP?

A. Connectionless
B. Stateful
C. Full Duplex
D. Quality of Service

Answer: A

QUESTION: 468
Which of the following diagnostic commands relies on proper forwarding of ICMP ECHO packets?

A. ipconfig
B. ping
C. route
D. nbstat

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Answer: B

QUESTION: 469
A technician replaces a customer's router, and is now unable to ping the ISP's gateway. Which of the following should the technician check?

A. The arp table of the new customer's router.
B. The route table of the next-hop router.
C. The route table of the new customer's router.
D. The arp table of a network user.

Answer: C

QUESTION: 470
When Jeff, a technician, is troubleshooting a problem, which of the following is the NEXT step after verifying full system functionality?

A. Establish a plan of action to resolve the problem and identify potential effects.
B. Implement the solution.
C. Establish a theory of probable cause.
D. Document findings, actions, and outcomes.

Answer: D

QUESTION: 471
A technician needs to verify an Ethernet run is functioning properly.
Which of the following tools should be used?

A. Protocol analyzer
B. Crimper
C. Cable tester
D. Punch down tool

Answer: C

QUESTION: 472
A supervisor requests that a technician downloads a MIB for a particular server.
Which of the following protocols requires MIBs?

A. IPSec
B. SSL
C. ISAKMP
D. SNMP

Answer: D

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QUESTION: 473
When configuring a WAP for a SOHO, which parameter will BEST limit access to the office area?

A. Signal strength
B. SSID enable
C. Encryption
D. Password hardening

Answer: A

QUESTION: 474
Which of the following should be implemented in a networked environment carrying teleconferencing packets?

A. L2TP
B. SSH
C. QoS
D. SNMP

Answer: C

QUESTION: 475
Lisa, a network technician, needs to introduce a few more cables to the existing patch panel. Which of the following tools would she use?

A. OTDR
B. Multimeter
C. Punch down tool
D. Temperature monitor

Answer: C

QUESTION: 476
A network technician is installing a simple SOHO router with wireless functionality. Which of the following wireless encryption standards would be BEST suited for the HIGHEST level of security?

A. WPA2
B. WPA
C. WEP64
D. WEP128

Answer: A

QUESTION: 477
A technician notices that network access is becoming increasingly slow. All of the activity lights, on the only network layer 2 switch, are blinking at steadily increasing rates. Which of the following is the MOST likely cause of the increased traffic?

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A. STP blocking
B. IP addresses
C. MTU mismatch
D. Switching loop

Answer: D

QUESTION: 478
A user wants a SOHO network to be protected from unauthorized users hacking their network. Which of the following should be implemented to aide in this matter?

A. VPN
B. Throughput tester
C. Firewall
D. OC3

Answer: C

QUESTION: 479
Zach, a technician, suspects a duplicate IP address assignment on the network. Which of the following resources can be used to verify this problem?

A. Network map
B. Environmental monitor
C. Placement map
D. Syslog

Answer: D

QUESTION: 480
Which of the following protocols are used for accessing a command line terminal session for management purposes? (Select TWO).

A. Telnet
B. FTP
C. SNMP
D. SSH
E. RDP

Answer: A,D

QUESTION: 481
A user is getting very weak signals while trying to connect to the wireless. Which of the following should the user do to help with signal strength?

A. Call the wireless provider and ask for a T3 circuit.
B. Move the wireless router to a better location where line of sight is obtained.
C. Reinstall the operating system to the PC to ensure the newest patches are installed.

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D. Install a hub to ensure there is a clear path for the cables to run.

Answer: B

QUESTION: 482
Lisa, a consultant, is inspecting an office that reports frequent wireless issues. Upon scanning the network broadcasting in the vicinity of the office, seven SSIDs are found. The company's Wi-Fi network and three others all share channel six. Which of the following is MOST likely causing the issue?

A. Frequency interference
B. Low signal strength
C. Standard mismatch
D. Incorrect channel

Answer: A

QUESTION: 483
Kim, a user, cannot access the network using wireless.
Which of the following is MOST likely the cause?

A. TXRX is reversed
B. Faulty crossover cable
C. Incorrect WEP key
D. A short in the cable pairs

Answer: C

QUESTION: 484
A network administrator wants to monitor traffic by deploying MIBs. Which of the follow network monitoring resources would be used?

A. SCTP
B. Packet sniffer
C. DCCP
D. SNMP

Answer: D

QUESTION: 485
Kim, a technician, is installing a switch that does not feature auto-negotiation. Which of the following characteristics would need to be manually configured? (Select TWO).

A. MAC addressing
B. IP addressing
C. Port speed
D. IPv6 addressing
E. Duplex

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Answer: C,E

QUESTION: 486
Zach, a technician, discovers a switch is not communicating with the other switches in a stack. Which of the following is the MOST likely cause?

A. Both T568A and T568B standards are being used.
B. STP is disabled.
C. The cable is not a crossover.
D. The port is not trunked.

Answer: C

QUESTION: 487
Which of the following technologies allows for redundant links within a Layer 2 segment?

A. OSPF
B. RIP
C. Port Mirroring
D. Spanning Tree

Answer: D

QUESTION: 488
A company has attempted to introduce a new major network segment to allow growth in capacity. On the core switch, a GBIC was used to interconnect with a newly placed downstream distribution switch for the first time. Soon after this implementation, a network flood and an outage occurred between the core and new distribution network modules. Which of the following should the network administrator troubleshoot FIRST in order to rectify the issue?

A. Check for switching loops between core and distribution switches.
B. Check whether an incorrect VLAN has been assigned to the new distribution switch.
C. Check for inconsistent or missing routes between the core and distribution switches.
D. Check whether the GBIC was set to multi-mode instead of single-mode SFP.

Answer: A

QUESTION: 489
Which of the following is used to create a secure connection between a client and a host?

A. VLAN
B. Proxy server
C. IIS server
D. VPN

Answer: D

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QUESTION: 490
A user reports a network failure on a computer. The technician determines that the computer and NIC are operating properly. Which of the following tools can the technician use to trace the network cabling back to the punch down block?

A. Protocol analyzer
B. Multimeter
C. Punch down tool
D. Toner probe

Answer: D

QUESTION: 491
Several users from the same building are reporting connectivity issues. The SFP at that building's IDF switch is showing a link light, but there is no link light to the corresponding switch's SFP at the MDF. Which of the following is the MOST likely cause?

A. A crossover cable is being used.
B. DB loss is too high on all strands.
C. Only TX or RX strand is working.
D. TX and RX are reversed.

Answer: C

QUESTION: 492
Which of the following is the correct representation of an IPv6 address?

A. ::
B. 0:0:0:0:0:0:0:1
C. 1:2:3:4:AB:CD:EF
D. 2001::4860:800f::

Answer: A

QUESTION: 493
Which of the following 802.11n features allows for the use of multiple simultaneous frequencies in order to increase usable bandwidth?

A. Channel bonding
B. MIMO
C. Spartial reuse
D. 20MHz channel spacing

Answer: A

QUESTION: 494
Kim, a network administrator, should consult which documentation sources FIRST to determine the cause of recent network issues?

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A. Network map
B. Cable management
C. Change management
D. Asset management

Answer: C

QUESTION: 495
The network optimization process used to allow reasonable use of data, voice, and video on the same network infrastructure is called:

A. CARP
B. QoS
C. Traffic shaping.
D. Fault tolerance.

Answer: B

QUESTION: 496
A network administrator is troubleshooting an intermittent network issue between devices that have a particularly long cable run. The issue was escalated to a network designer who alluded to potential attenuation issues. Which of the following BEST describes what the network designer was referring to?

A. Bad connectors
B. Cross-talk
C. EMI / Interference
D. dB loss

Answer: D

QUESTION: 497
An analog POTS voice line is no longer working and Kim, the technician, is tasked to verify if a dial tone is present at the IDF. Which of the following tools would be used?

A. Protocol analyzer
B. Butt set
C. OTDR
D. Toner probe

Answer: B

QUESTION: 498
A network technician is troubleshooting intermittent issues with VoIP call quality. A throughput tester can help assess the functionality of which of the following?

A. LLDP

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B. VLAN tagging
C. QoS
D. SIP trunking

Answer: C

QUESTION: 499
Lisa, a user, reports increased delays and timeouts when trying to reach several Internet sites. Which of the following would MOST likely be used when investigating the problem at Lisa's workstation?

A. nslookup
B. route
C. nbtstat
D. arp

Answer: A

QUESTION: 500
Which of the following utilities would a technician use to determine the location of lost packets on a routed network?

A. ping
B. nslookup
C. route
D. tracert

Answer: D

QUESTION: 501
A DSL modem connects to the provider's network using which of the following authentication techniques?

A. PoE
B. MS-CHAP
C. PPPoE
D. EAP

Answer: C

QUESTION: 502
Jeff, a user, is having a problem with a POTS line. Which of the following tools would Jeff use to make sure the phone lines have a dial tone?

A. Loopback plugs
B. Butt set
C. Cable certifier
D. Toner probe

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Answer: B

QUESTION: 503
169.254.0.100 is an IP address which would MOST likely come from which of the following?

A. CIDR
B. DHCP
C. APIPA
D. DNS

Answer: C

QUESTION: 504
Zach, a technician, is checking newly installed CAT5e cabling, and suspects that some of the ends were not properly terminated. Which of the following tools will verify this?

A. Cable tester
B. Toner probe
C. OTDR
D. Loopback plug

Answer: A

QUESTION: 505
Which of the following DNS records allows for reverse lookup of a domain?

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

Answer: A

QUESTION: 506
Which of the following is an example of two factor authentication?

A. Password, device certificate and PIN
B. SSL web server certificate and password
C. User password and administrator password
D. Password and hardware token OTP

Answer: D

QUESTION: 507
Which of the following IP addresses would be classified as private?

A. 10.100.200.0

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B. 169.253.10.20
C. 172.168.5.0
D. 200.100.25.0

Answer: A

QUESTION: 508
A network technician wants to baseline traffic flows on a specific network. Which of the following will provide the GREATEST level of detail?

A. Network flow information
B. SNMP traps
C. Debug level syslog
D. Protocol analyzer

Answer: D

QUESTION: 509
Which of the following will prevent switching loops by selectively shutting down switch ports?

A. RIP
B. IGP
C. STP
D. VLAN

Answer: C

QUESTION: 510
When using high bandwidth applications over multiple WAN connections, which of the following should be used?

A. Static IP addressing
B. Half-duplex
C. PoE devices
D. Load balancing

Answer: D

QUESTION: 511
A network technician is trying to terminate CAT5 modular jacks. Which of the following tools would be MOST appropriate for this scenario?

A. Crimper
B. OTDR
C. Throughput tester
D. Punch down tool

Answer: D

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QUESTION: 512
Which of the following media types can carry a standard Ethernet signal for network connectivity?

A. USB
B. PArallel
C. Serial
D. CAT6

Answer: D

QUESTION: 513
There is suspected virus activity on the network. Which of the following would Lisa, a technician, use to study network traffic?

A. Protocol analyzer
B. Cable tester
C. Cable certifier
D. Environmental monitor

Answer: A

QUESTION: 514
Zach, a network technician, is configuring several switches to be managed remotely. Which of the following must be configured to connect via SSH to each of those devices, as well as to retrieve various parameters?

A. PoE settings and VTP configuration
B. SNMP configuration only
C. IP address and SNMP configuration
D. QoS and PoE settings

Answer: C

QUESTION: 515
A Windows server has a problem after booting up. Kim, a technician, should immediately check the:

A. history logs.
B. cron logs.
C. application logs.
D. system logs.

Answer: D

QUESTION: 516
A user has no network connectivity. Jeff, the network technician, is unable to locate the CAT5e cable from the user at the IDF. Which of the following tools would be used to assist Jeff in locating the CAT5e cable?

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A. Butt set
B. Punch down tool
C. Toner probe
D. D. Protocol analyzer

Answer: C

QUESTION: 517
An administrator is setting up a secure wireless network. The administrator decides to support 802.11n and 802.11g with a WPA2 pre-shared key. Users are given the SSID with the pre-shared key, but the administrator has disabled the SSID broadcast and MAC filtering. Some users have reported connection issues. Which of the following would MOST likely resolve the users' connection issues?

A. Limit the devices to 802.11n only.
B. Enable the SSID broadcast.
C. Enable MAC filtering.
D. Use a WEP 128-bit key.

Answer: B

QUESTION: 518
Which of the following protocols is used to securely connect to a multi-layer switch?

A. HTTP
B. SMTP
C. SSH
D. Telnet

Answer: C

QUESTION: 519
The software in a virtualized environment that controls resource allocation and allows multiple operating system guests to run on the same physical platform is known as the:

A. hypervisor.
B. LPAR.
C. broker.
D. VDI.

Answer: A

QUESTION: 520
A new monitoring device is installed in the network that uses ping to determine whether critical network Internet routers are up. After three missing pings, the alarm reports the device is down. The device is now constantly reporting alarms, yet there are no reported Internet problems from users. Which of the following is the MOST likely cause?

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A. A missing route on the alarm device.
B. Incorrect VLAN assignment on the router.
C. A missing route on the network routers.
D. Incorrect speed/duplex setting on the alarm device.

Answer: D

QUESTION: 521
A customer wishes to network several computers throughout a large warehouse containing numerous metal shelves and concrete walls. The computers are at least 175 meters (574 feet) apart. Which of the following media types should be recommended for the customer using only a single switch?

A. Fiber optic
B. Wireless
C. CAT5e
D. CAT3

Answer: A

QUESTION: 522
A network administrator suspects an employee of using the company's Internet connection to download illegal content. Which of the following can be used to inspect ongoing network traffic?

A. Syslog server
B. Toner probe
C. OTDR
D. Packet sniffer

Answer: D

QUESTION: 523
A technician is setting up a firewall on the network that would show a public IP address out to the Internet and assign private IP addresses to users inside the network. Which of the following processes should be set up?

A. Port security
B. MAC filtering
C. ACL
D. NAT

Answer: D

QUESTION: 524
Two WAPs are positioned with overlapping coverage, but seamless roaming across them is not working. Which of the following should be checked?

A. WPA should be enabled

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B. PKI should be turned off
C. WAP SSIDs are matching
D. WAPs are transmitting on same channel

Answer: C

QUESTION: 525
No link lights on a switch's SFP are functioning, so the network technician re-terminates the end. After testing the cable, the tester is showing a db loss of-9. Which of the following types of cable is MOST likely being tested?

A. Fiber
B. CAT3
C. CAT5e
D. CAT6a

Answer: A

QUESTION: 526
An administrator has received a recommendation against deploying WEP as a wireless encryption protection scheme. Which of the following is MOST likely the reason?

A. WEP's IV is too small.
B. WEP uses RC4 which is easily accessible and not secure.
C. WEP uses plain text.
D. WEP is not well supported.

Answer: A

QUESTION: 527
Jeff, a network technician, is installing a wireless router. Which of the following should Jeff consider to get the BEST signal strength?

A. WAP placement
B. PoE devices
C. MAC filtering
D. Encryption type

Answer: A

QUESTION: 528
Which of the following devices can be used to offload outbound web server SSL encryption overhead?

A. NIPS
B. Proxy server
C. Content filter
D. VPN connectator

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Answer: B

QUESTION: 529
A user snapped the retention tab off of a network cable. Which of the following tools would Jeff, a technician, use to replace the RJ-45 connector?

A. Wire tester
B. Punch down
C. Crimper
D. Multimeter

Answer: C

QUESTION: 530
Which of the following methods for network performance optimization is used to distribute traffic among similar devices?

A. Fault tolerance
B. QoS
C. Proxy server
D. Load balancing

Answer: D

QUESTION: 531
A user is unable to connect to a server in another building. A technician is troubleshooting the issue and determines the following:
1) Client PC 1 has an IP address if 192.168.10.25/25
2) PC 1 can successfully ping its gateway of 192.168.10.1/25 which is an interface of router A
3) Server A is named 'BLDGBFILESRVR01' and has an IP address of 192.168.10.145/25
4) PC 2 with an IP address of 192.168.10.200/25 can successfully ping server A
However, when PC 1 pings server A, it receives a destination host unreachable responds. Which of the following is the MOST likely cause?

A. Link from touter A to PC 1 are on different subnets
B. Link from router A to server A is down
C. Link from PC 1 to router A has duplex issues
D. Link from server A top PC 2 is down

Answer: A

QUESTION: 532
A technician needs to limit the amount of broadcast traffic on a network and allow different segments to communicate with each other. Which of the following options would satisfy these requirements?

A. Add a router and enable OSPF.

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B. Add a layer 3 switch and create a VLAN.
C. Add a bridge between two switches.
D. Add a firewall and implement proper ACL.

Answer: B
We can limit the amount of broadcast traffic on a switched network by dividing the computers into logical network segments called VLANs.
A virtual local area network (VLAN) is a logical group of computers that appear to be on the same LAN even if they are on separate IP subnets. These logical subnets are configured in the network switches. Each VLAN is a broadcast domain meaning that only computers within the same VLAN will receive broadcast traffic.
To allow different segments (VLAN) to communicate with each other, a router is required to establish a connection between the systems. We can use a network router to route between the VLANs or we can use a 'Layer 3' switch. Unlike layer 2 switches that can only read the contents of the data-link layer protocol header in the packets they process, layer 3 switches can read the (IP) addresses in the network layer protocol header as well.

QUESTION: 533
HOTSPOT
You have been tasked with testing a CAT5e cable. A summary of the test results can be found on the screen.
Step 1: Select the tool that was used to create the cable test results.
Step 2: Interpret the test results and select the option that explains the results. After you are done with your analysis, click the 'Submit Cable Test Analysis' button.

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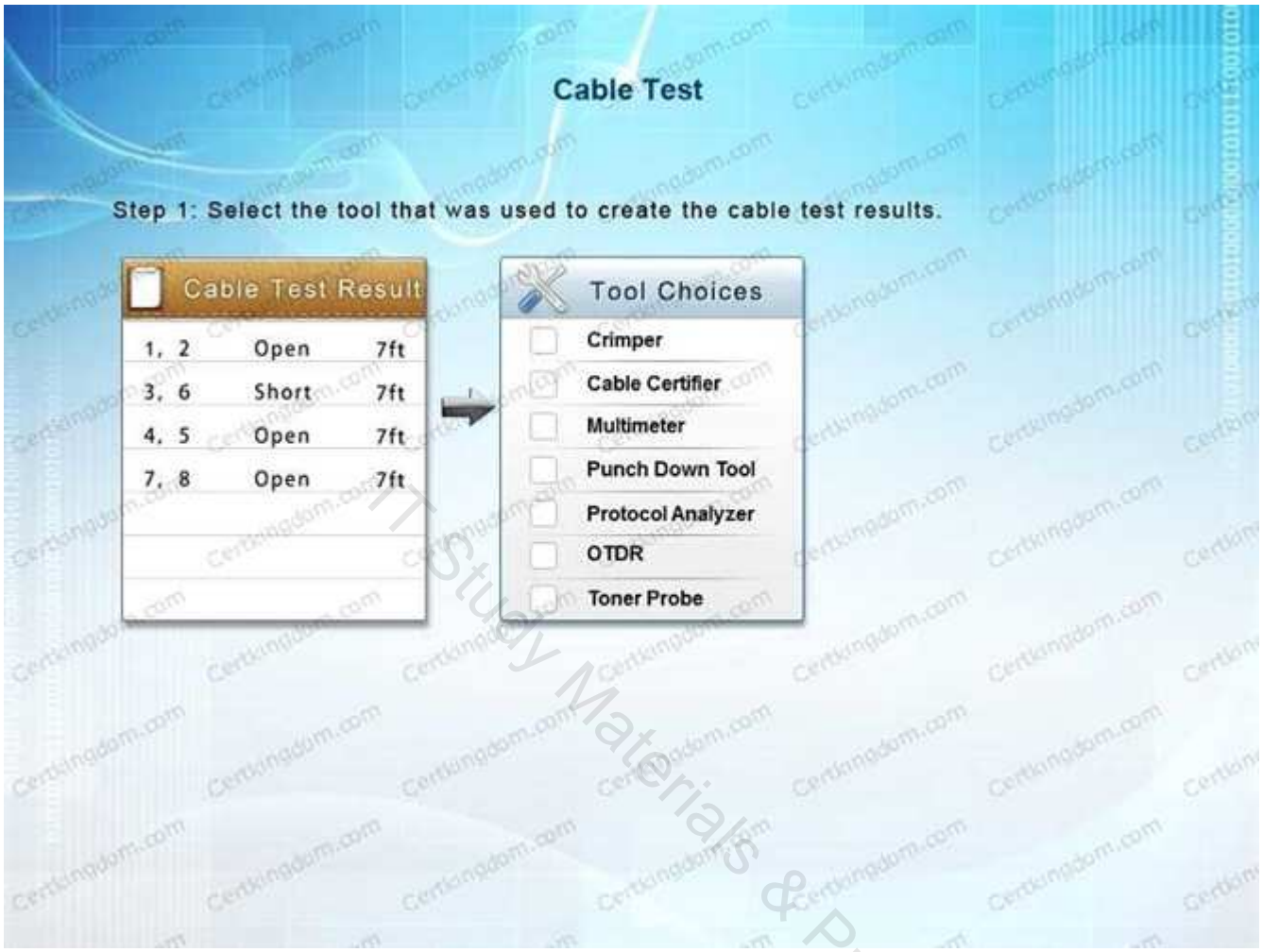

Answer:

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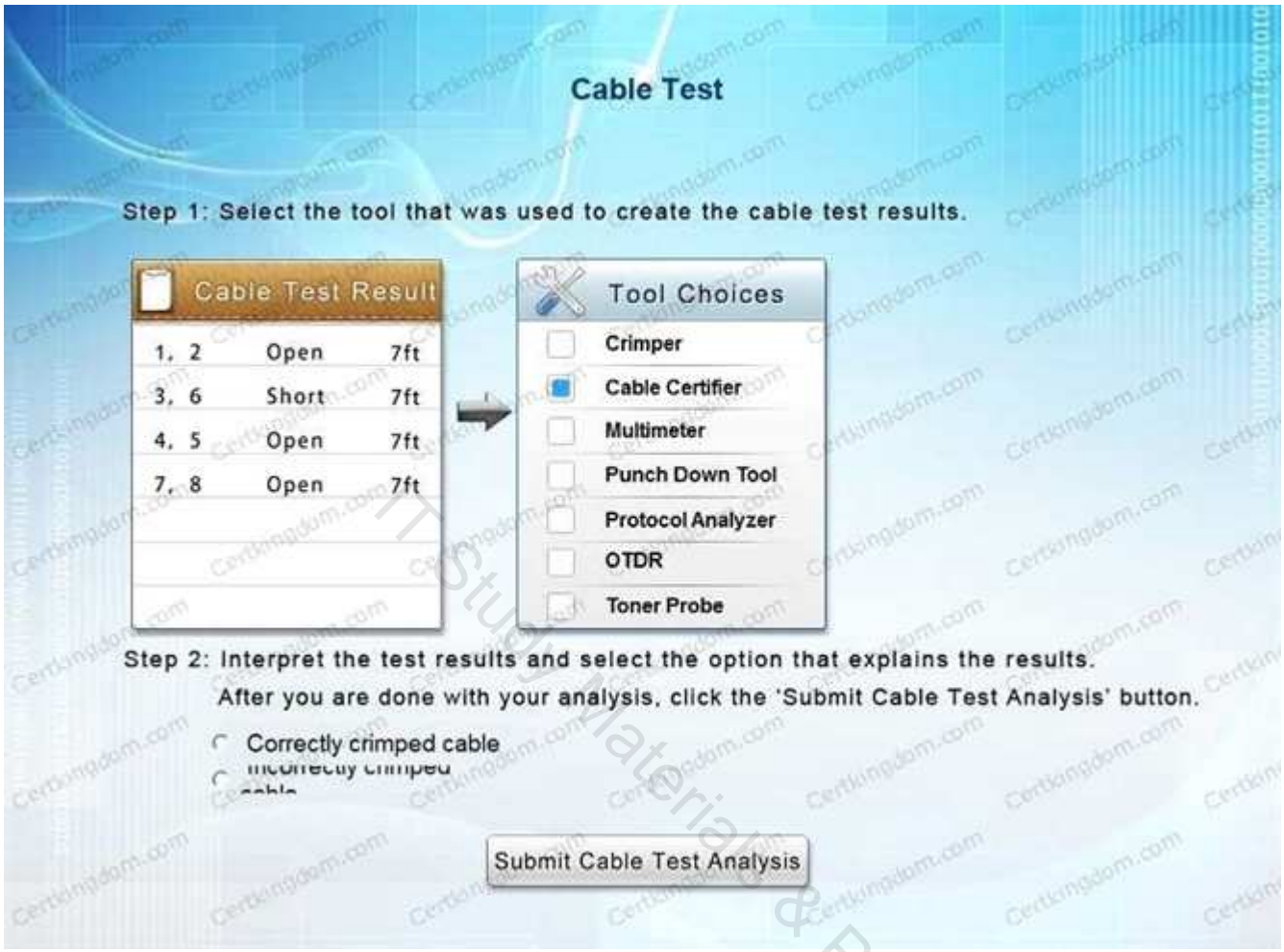

A Cable Certifier provides “Pass” or “Fail” information in accordance with industry standards but can also show detailed information when a “Fail” occurs. This includes shorts, the wire pairs involved and the distance to the short. When a short is identified, at the full length of the cable it means the cable has not been crimped correctly.

QUESTION: 534
HOTSPOT
Workstations are unable to access the Internet after a recent power outage. Configure the appropriate devices to ensure ALL workstations have Internet connectivity.
Instructions: All ports can be enabled (green) or disabled (red). When you have completed the simulation please select the Done button.

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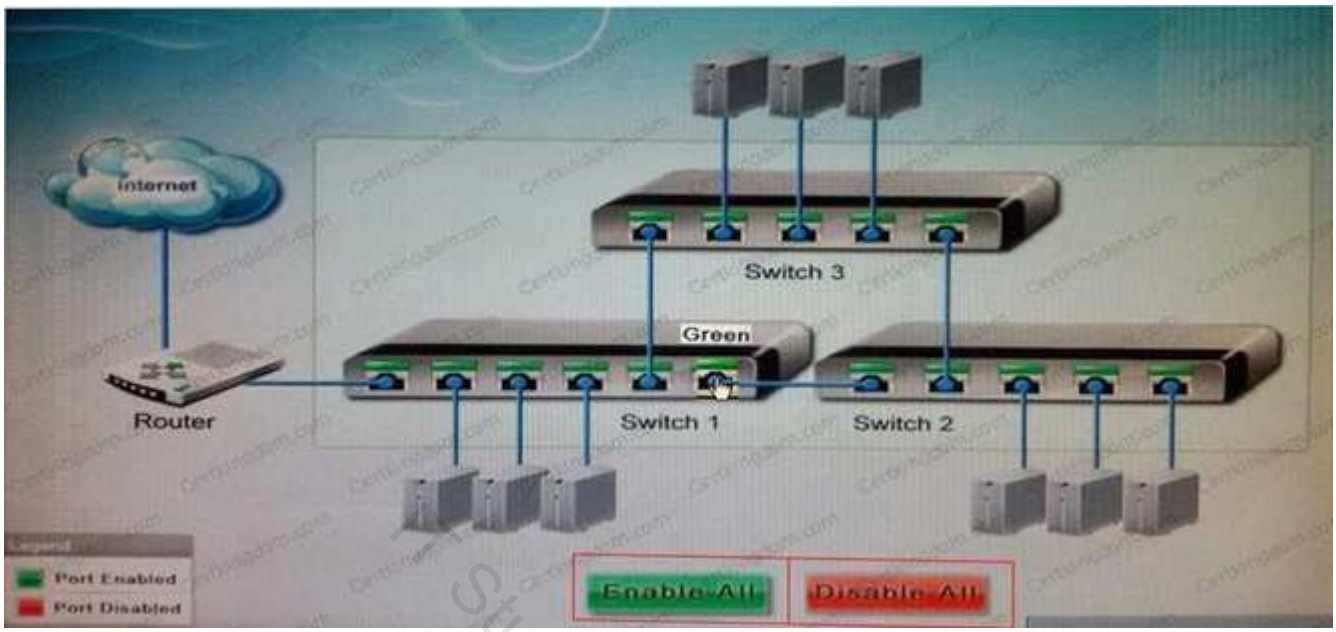

Answer:
All ports should be enabled.

QUESTION: 535
A company is experiencing accessibility issues reaching services on a cloud-based system.
Which of the following monitoring tools should be used to locate possible outages?

A. Network analyzer
B. Packet analyzer
C. Protocol analyzer
D. Network sniffer

Answer: A
A network analyzer is a useful tool, helping you do things like track traffic and malicious usage on the network.

QUESTION: 536
A network administrator has created a virtual machine in the cloud. The technician would like to connect to the server remotely using RDP.
Which of the following default ports needs to be opened?

A. 445
B. 3389
C. 5004
D. 5060

Answer: B

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QUESTION: 537
Which of the following cloud infrastructure designs includes on premise servers utilizing a centralized syslog server that is hosted at a third party organization for review?

A. Hybrid
B. Public
C. Community
D. Private

Answer: A

QUESTION: 538
An administrator hosts all of the company's virtual servers internally. In the event of total server failure, the server images can be restored on a cloud provider and accessed through the VPN. Which of the following cloud services is the administrator using?

A. Community PaaS
B. Public Iaas
C. Hybrid Saas
D. Private Iaas

Answer: B

QUESTION: 539
A technician looks at an ARP table in an attempt to resolve a connectivity issue. After table of the switch is a cleared, a different MAC in the output, Which of the following does this indicate?

A. ARP flooding
B. VLAN mismatch
C. Duplicate IP address
D. Faulty NIC

Answer: A

QUESTION: 540
Which of the following is networking stand-alone hardware that will permit any WiFi-compliant device to connect to a network?

A. Wireless hub
B. Wireless firewall
C. Wireless access point
D. Wireless bridge

Answer: C

QUESTION: 541
A technician is surveying college's network equipment room and connectivity. Which of the following

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types of documentation does the technician need perform a detailed site survey? (Select 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

Answer: A,CG

QUESTION: 542
Which of the following devices are MOST often responsible for 1q tagging? (Select TWO).

A. Switch
B. Router
C. IDS
D. Hub
E. IPS
F. Network tap

Answer: A,B

QUESTION: 543
A VoIP system will require 23 concurrent voice channels and signaling channel. Which of the following types of service would provides the BEST connectivity to the PSTN?

A. PRI
B. BRI
C. E1/E3
D. DSL

Answer: A

QUESTION: 544
A company decides to deploy customer-facing, touch-scan kiosks. The kiosks appear to have several open service ports that could potentially become compromised. Which of the following is the MOST effective way to protocol the kiosks?

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

Answer: D

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IT Study Materials & Practical QAs
IT Study Materials & Practical QAs

QUESTION: 545
A network technician is configuring user's access to a VPN concentrator and has 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

Answer: B

QUESTION: 546
A network technician at a small office upgrades the VLAN switch. After the upgrade, a user reports being unable to access network resources. When the technician checks the switchport, the LED light is not lit. Which of the following should technician check FIRST?

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

Answer: C

QUESTION: 547
Which of the follow creates a secure remote connection at the OSI network layer?

A. L2TP
B. SSL
C. DTLS
D. IPSec

Answer: D

QUESTION: 548
A junior technician is settings up a voice control device so the Chief Executive Officer (CEO) will able to control various things in the office. Of which of the following types of the loT technologies is this an example?

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

Answer: B

QUESTION: 549
A network technician receives a call from a branch office about a problem with its wireless

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connectivity. The user states the office 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 dropping and network speeds are unusable. Which of the following is the MOST likely cause of this issue?

A. DCHP exhaustion
B. Chanel overlapping
C. Interference
D. Overcapacity

Answer: C

QUESTION: 550
DRAG DROP
You are tasked with creating a network that will accomplish the following requirements
Requirements:
1) The remote sales team must be able to connect to the corporate network
2) Each department must have ONLY two PCs and a server
3) Each department must be segmented from each other
4) The following VLANs have been designated:
a) VLAN 2- Finance
b) VLAN 12- Sales
c) VLAN 22- Human Resources (HR)
Complete the network by dragging the required objects into the diagram
INSTRUCTIONS: Objects can be used multiple times and not all placeholders need to be filled

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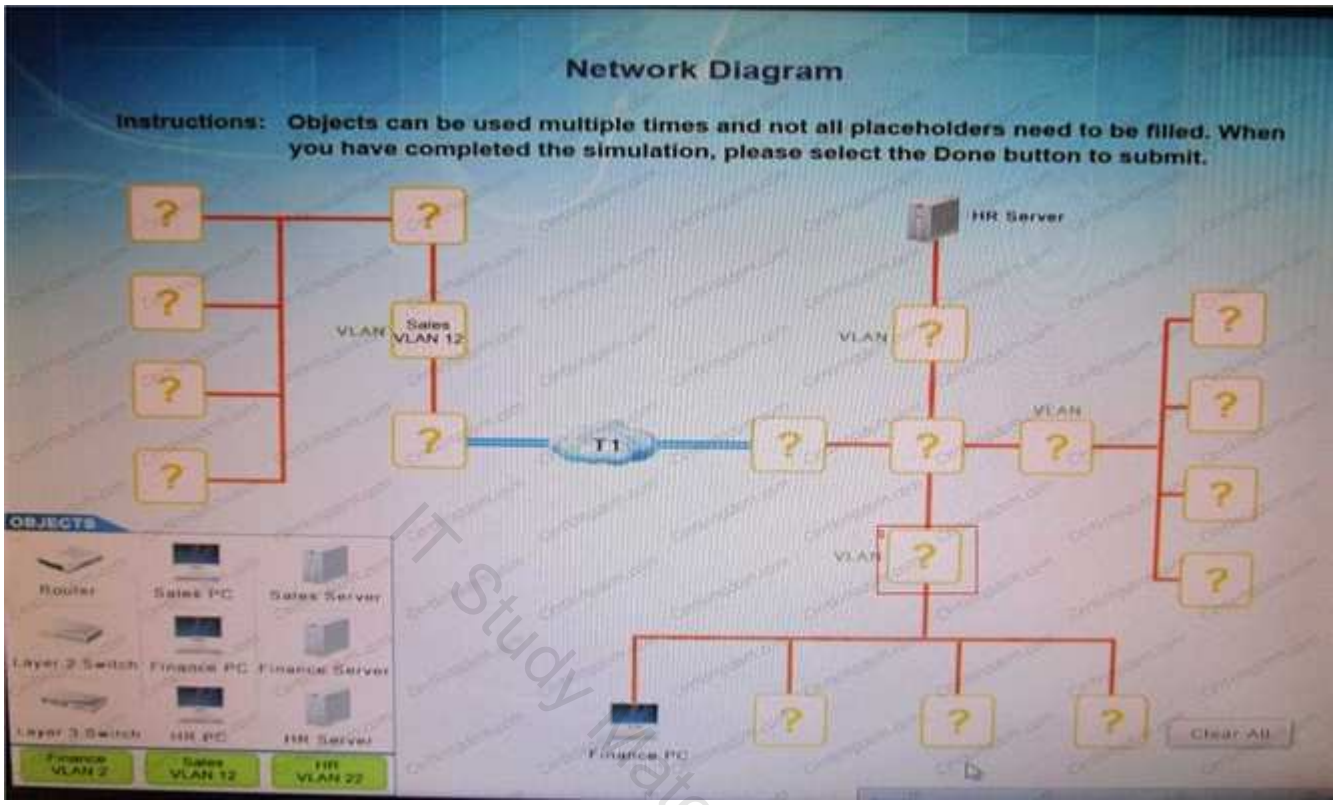
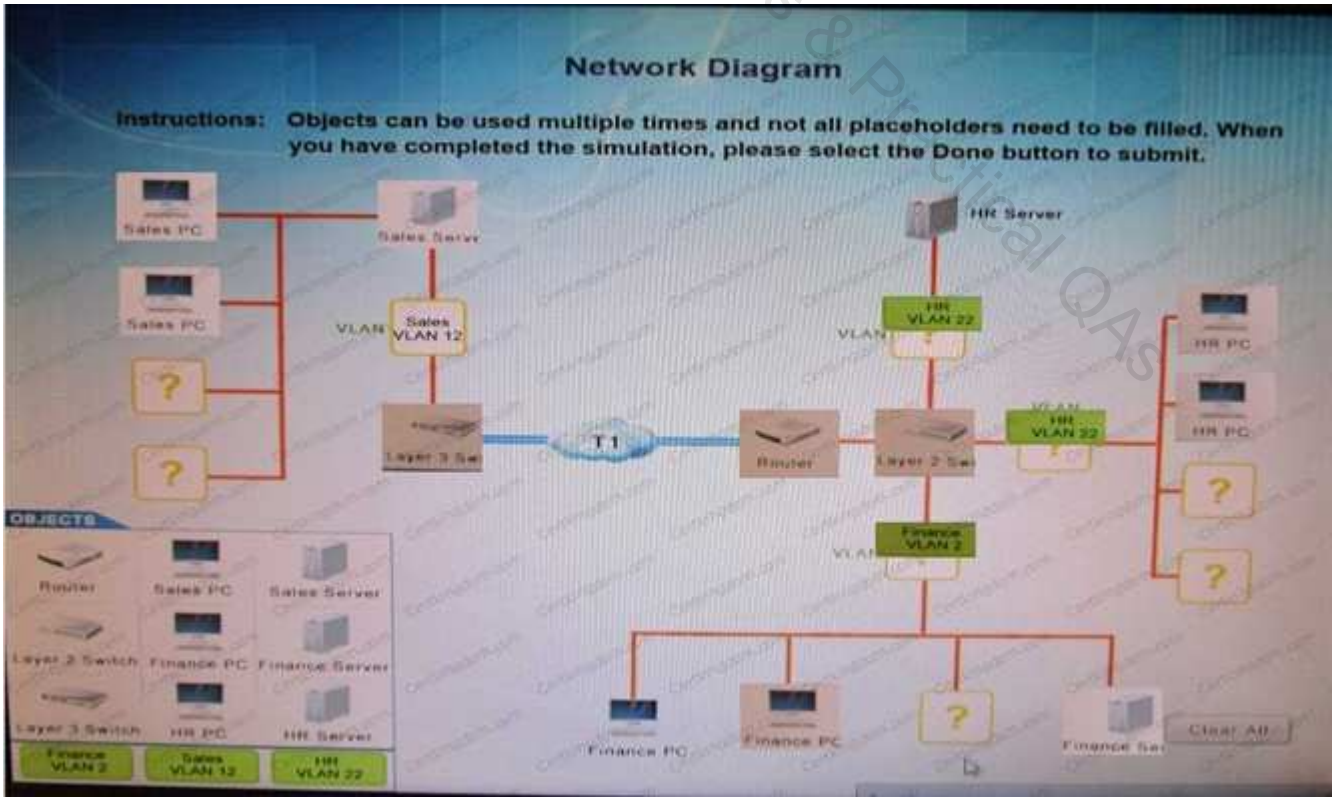
IT Study Materials & Practical QAs IT Study Materials & Practical QAs



Answer:



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QUESTION: 551
HOTSPOT
You have been tasked with testing a CAT5e cable. A summary of the test results can be found on the screen.
Step 1: Select the tool that was used to create the cable test results.
Step 2: Interpret the test results and select the option that explains the results. After you are done with your analysis, click the 'Submit Cable Test Analysis' button.

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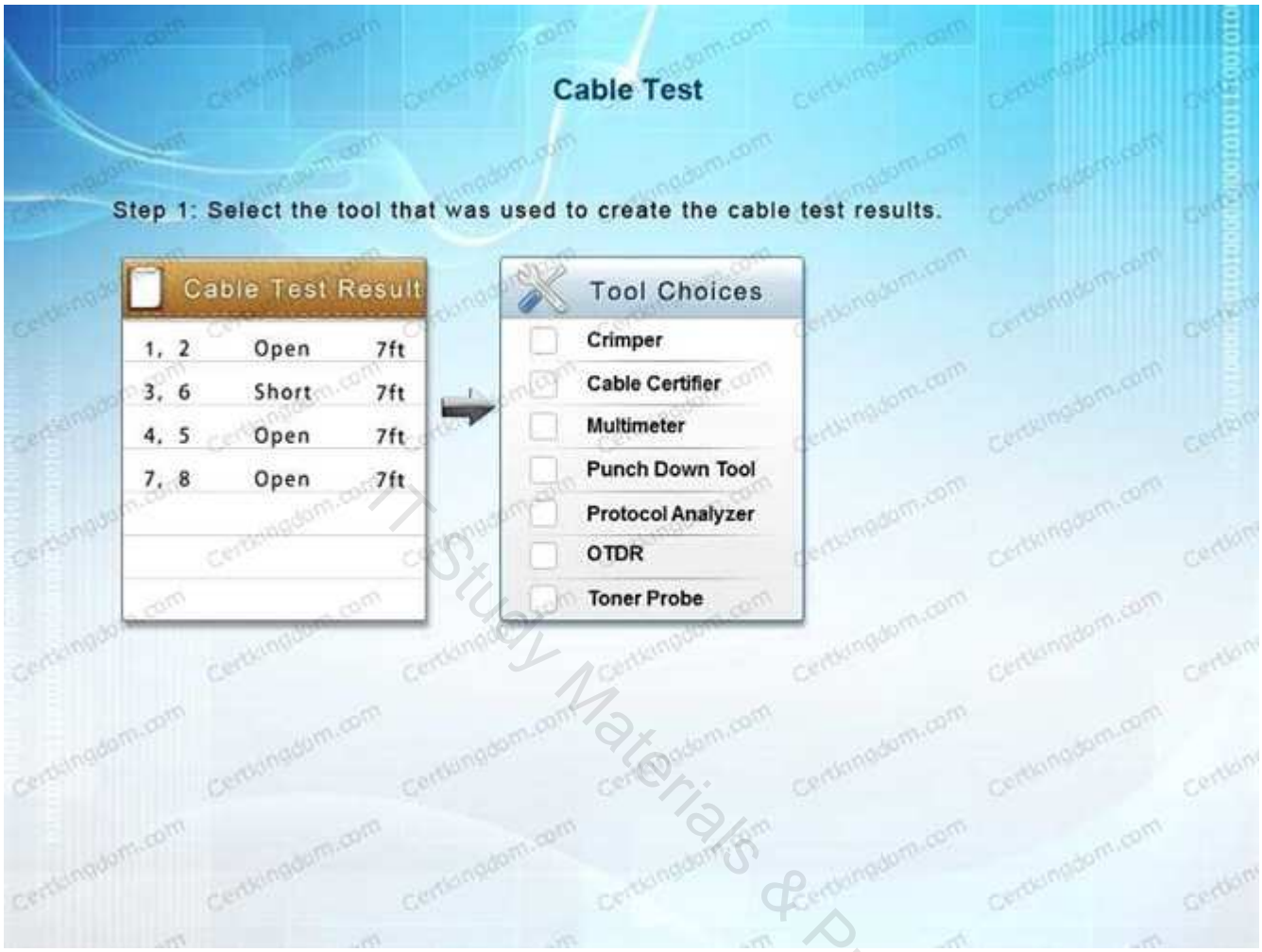

Answer:

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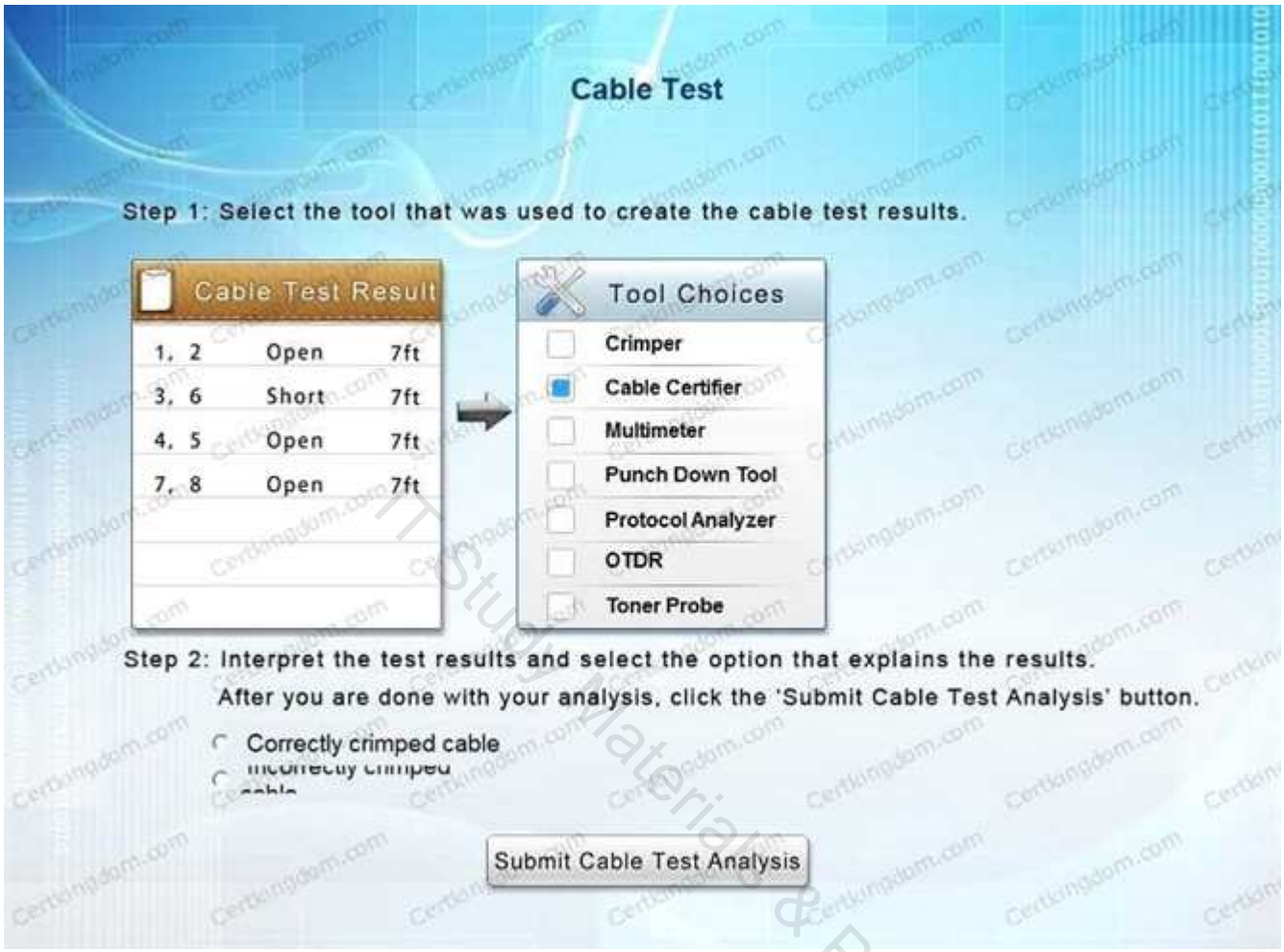
IT Study Materials & Practical QAs

IT Study Materials & Practical QAs



A Cable Certifier provides “Pass” or “Fail” information in accordance with industry standards but can also show detailed information when a “Fail” occurs. This includes shorts, the wire pairs involved and the distance to the short. When a short is identified, at the full length of the cable it means the cable has not been crimped correctly.

QUESTION: 552
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 togs in the VPN client to check for any informational messages
D. Verify the system has the latest OS patches installed

Answer: D

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QUESTION: 553
A network technician is configuring network addresses and port numbers for a router ACL to block a peer-to-peer application Which of the following is the HIGHEST layer of the OSI model at which this router ACL operates?

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

Answer: A

QUESTION: 554
Which of the following policies prohibits a network administrator from using spare servers in the datacenter to mine bitcoins?

A. NDA
B. BYOD
C. AUP
D. MOU

Answer: D

QUESTION: 555
A network technician notices that most of the nodes in the 10.10.74.0/23 address space return either 1 or 2 node hop after running a tracert; however some of the new servers are showing a hop count larger than 10 Which of the following is the MOST likely reason for this?

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

Answer: B

QUESTION: 556
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

Answer: D

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IT Study Materials & Practical QAs

QUESTION: 557
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

Answer: C

QUESTION: 558
According to the troubleshooting methodology which of the following steps will help a technician gather information about a network problem'? (Select 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

Answer: C,E

QUESTION: 559
A technician is installing two new servers that collect logs. After installing the servers the technician reviews the logical output from various commands. Which of the following should be included in a logical network diagram?

A. Rack location
B. Room number
C. Media type
D. Hostname

Answer: A

QUESTION: 560
An employee reports an error when visiting a website using SSL and a message is displayed warning of an invalid certificate. Which of the following could be occurring?

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

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Answer: A

QUESTION: 561
A shop owner wants to ensure that only a specified group of devices can access the wireless network When of the following methodologies will BEST ensure unauthorized devices cannot consume the owner's limited Internet bandwidth?

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

Answer: A

QUESTION: 562
While togged 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

Answer: D

QUESTION: 563
A network technician installed a new host on the network. The host is not connecting to the company's cloud servers. The technician attempts to ping a server using the IP address with no success. Checking the IP address using ipconfig displays.

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

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

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

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IT Study Materials & Practical QAs
IT Study Materials & Practical QAs

Answer: A

QUESTION: 564
A user calls the help desk for assistance with setting up a new SOHO router. The user has three employees who al 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 m the users' dynamo 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

Answer: D

QUESTION: 565
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

Answer: B

QUESTION: 566
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 no! 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

Answer: C

QUESTION: 567
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

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

D. Samba

Answer: D

QUESTION: 568
Which of the following physical security devices is used to prevent unauthorized access rto a datacenter?

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

Answer: A

QUESTION: 569
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

Answer: D

QUESTION: 570
A technician has instated multiple new PC client and is connecting them to the network. Only one client is receiving IP addressing information. When of the following should the technician verify as the NEXT troubleshooting step?

A. DHCP scope
B. DHCP lease
C. Default gateway
D. DNS zone

Answer: A

QUESTION: 571
A large company uses an AAA server to manage network device access. The engineers can use their domain credentials to access all other servers. Currently the network engineers cannot access the AAA server using domain credentials but they can access it using a local account. Which of the following should the engineers update?

A. Host-based firewall settings
B. TACACS+ server time
C. Server IP address

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

D. DNS SRV record

Answer: C

QUESTION: 572
A network technician receives a new firmware update for a network device. The technician wants to ensure the file has not been tampered with. Which of the following techniques should the technician use to ensure the integrity of the file?

A. Cyclic redundancy check
B. System integrity check
C. Hash comparison
D. Root guard

Answer: B

QUESTION: 573
A network technician is troubleshooting a connectivity issue and determine the cause is related to the VLAN assignment on one of the access switches in the network After resolving the issue, the network technician decides to update the documentation to refer to the correct VLAN. Which of the following should the technician update?

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

Answer: A

QUESTION: 574
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 techician use to retrieve the updated firmware?

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

Answer: B

QUESTION: 575
A network technician receives a request for a disaster recovery solution. Management has requested no downtime in the event of a disaster. Which of the following disaster recovery solutions is the appropriate choice?

A. Hot site

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

B. Business continuity
C. File backups
D. Virtual snapshot

Answer: D

QUESTION: 576
Which of the following should a network administrator use to configure Layer 3 routes? (Select TWO)

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

Answer: A,C

QUESTION: 577
A network technician notices a router that repeatedly reboots. When contacting technical support the technician discovers this is a known problem m 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? (Select 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

Answer: BF

QUESTION: 578
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 ipconf ig command the user wants to verify the default gateway is correct. Which of the following devices should be the gateway?

A. Cable modern
B. SOHO router
C. DNS server
D. Layer 2 switch

Answer: A

QUESTION: 579
A network technician has been asked to install an additional switch in an IDF, but all of the singlemode fiber is in use between the IDF and MDF. The technician has deployed new transceivers that

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allow tor the use of a single fiber strand providing the additional fiber needed for the new switch. When of the following has the technician deployed?

A. 1000BaseLX SFP
B. Duplex G8IC
C. Duplex SFP+
D. Bidirectional SFP

Answer: C

QUESTION: 580
Which of the following default ports should be opened on a firewal to allow for SSH and Telnet? (Select TWO).

A. 21
B. 22
C. 23
D. 26
E.123
F. 443

Answer: BF

QUESTION: 581
A new technician is connecting an access switch to a distribution switch uplink in a datacenter using fiber cables. Which of the following are transceivers the technician should use to perform this job? (Select TWO).

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

Answer: E,F

QUESTION: 582
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.

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

Answer: A

QUESTION: 583
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 al the phones and reprovidsion 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.

Answer: D

QUESTION: 584
A user reports network resources can no longer be accessed. The PC reports a link but will only accept static IP addresses. The technician pings other devices on the subnet but the PC displays the message Destination unreachable. Which of the following are MOST likely the causes of this issue? (Select TWO)

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

Answer: BE

QUESTION: 585
A network administrator wants to ensure at 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

Answer: B

QUESTION: 586
A network technician has purchased a 10GBase-T switch and wishes to connect it to 30 computers with 10G network cards The computers are 225ft (69m) away, and all need to establish a 10Gbps connection to meet business requirements. To minimize costs while still meeting these requirements. which of the following cable types should the technician choose'?

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IT Study Materials & Practical QAs IT Study Materials & Practical QAs

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

Answer: A

QUESTION: 587
After rebooting a PC, a user is no longer able to connect to the corporate network. As a test the technician plugs a different laptop into the same network jack arid receives an IP address of 169.254.112.137. Which of the following is MOST likely causing the issue?

A. DHCP scope exhaustion
B. Improper DNS setting
C. Incorrect ACL setting
D. Port-security violation

Answer: C

QUESTION: 588
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 Ml access to network resources Which of the following attacks is described?

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

Answer: B

QUESTION: 589
A network technician is installing a new network switch in the MDF. The technician is using fiber to connect the switch back to the core. Which of the following transceiver types should the technician use?

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

Answer: A

QUESTION: 590
A technician is configuring a new email server and needs to modify DNS records. Which of the following records should the technician update to ensure email functions as expected?

IT Study Materials & Practical QAs
IT Study Materials & Practical QAs
IT Study Materials & Practical QAs

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

Answer: B

QUESTION: 591
A company wishes to allow employees which company-owned mobile devices to connect automatically to the corporate wireless network upon entering the facility. Which of the following would BEST accomplish the objective?

A. Open wireless
B. Geofencing
C. Pre-shared key
D. MAC filtering

Answer: D

QUESTION: 592
Joe a network engineer is attempting to install wireless in a large work are

A. He installs the access point in the middle of the work space. When testing he notices a -60dB reading on one side of the room and a -92dB reading on the other side. Which of the following is MOST likely the issue?

A. External interference
B. Distance limitations
C. Channel overlap
D. Incorrect antenna type

Answer: A

QUESTION: 593
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

Answer: E

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IT Study Materials & Practical QAs

QUESTION: 594
Which of the following BEST describes the functionality of the root guard feature on a switch?

A. BPDUs entering the root bridge are ignored
B. The STP root bridge cannot be changed
C. Broadcast storms entering from a root port are blocked
D. Loop protection is enabled on the root port of a switch

Answer: B

QUESTION: 595
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

Answer: A

QUESTION: 596
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

Answer: C

QUESTION: 597
A network administrator is concerned about clients being able to access the local Internet while connected to the corporate VPN. Which of the following should be disabled on the client to prevent this?

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

Answer: B

QUESTION: 598
An NGFW alerts that a web server in the DMZ is sending suspicious traffic. A network administrator

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finds that port 25 is open, and the traffic is originating from this port. The only purpose of the server is to deliver website traffic. When of the following should the network administrator recommend to the systems administrator?

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

Answer: D

QUESTION: 599
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
D. Modem

Answer: A

QUESTION: 600
Which of the following technologies is used when multiple Ethernet adapters work to increase speed and fault tolerance?

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

Answer: D

QUESTION: 601
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

Answer: B

QUESTION: 602
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 cloud have affected this PC?

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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

Answer: A

QUESTION: 603
A corporate manager says wireless phones do not work property inside the mam budding. 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

Answer: A

QUESTION: 604
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

Answer: B

QUESTION: 605
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 port?

A. DMZ
B. Data tier
C. IDF
D. Demarc

Answer: C

QUESTION: 606
At which of the following layers of the OSI model would TCP UDP operate?

A. Layer 3
B. Layer 4

IT Study Materials & Practical QAs
IT Study Materials & Practical QAs
IT Study Materials & Practical QAs

C. Layer 5
D. Layer 6

Answer: B

QUESTION: 607
A technician has been assigned to capture packets on a specific switchport. Which of the following switch features MUST be used to accomplish this?

A. Spanning tree
B. Trucking
C. Port aggregation
D. Port mirroring

Answer: D

QUESTION: 608
A technician has a remote site that often has congestion issues. When this happens the remote router cannot be managed using SSH because tie session drops. Which of the following is a possible solution to the issue?

A. Out-of-band management
B. HTTPS management URL
C. Client-to-site VPN
D. Router ACL

Answer: B

QUESTION: 609
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. tcpdurcp
D. dig

Answer: C

QUESTION: 610
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

IT Study Materials & Practical QAs

IT Study Materials & Practical QAs IT Study Materials & Practical QAs

C. Multimeter
D. Loopback adapter

Answer: A

QUESTION: 611
A technician is establishing connectivity through a VPN for remote server access. Which of the following protocols should be utilized to configure this VPN connection securely?

A. iPSec
B. IGRP
C. L2TP
D. PPTP

Answer: D

QUESTION: 612
Which of the following technologies is used to attach multiple guest operating systems to a single physical network port?
Virtual switch

A. FCoE
B. VPC
C. vSAN
D. Fibre Channel

Answer: C

QUESTION: 613
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

Answer: B

QUESTION: 614
A network technician travels to a remote office to set up a new SOHO for the company Wireless networking should be used at the remote office. The network technician sets up all the related wireless network equipment and the last step is to connect the users' devices to the company network. To complete this step which of the following should be used to secure the remote network location?

A. Host-based firewalls

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B. WPA2/WPA
C. Open access
D. Port filtering

Answer: A

QUESTION: 615
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

Answer: C

QUESTION: 616
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 Americ

A. Which of the following cellular technologies should the administrator took for in the phone?

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

Answer: D

QUESTION: 617
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 instated 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 4GHz
B. 56MHz
C. 5GHz
D. 900MHz

Answer: C

QUESTION: 618
Users have been experiencing connection timeout issue when using a web-based program. The

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network technician determines the problem happened due to a TTL setting that was set too low on the firewall. Which of the following BEST enabled the network technician to each this conclusion?

A. Reviewing application logs
B. Reviewing a baseline report
C. Reviewing a vulnerability scan
D. Reviewing SLA requirements

Answer: B

QUESTION: 619
A network technician is assisting a user who is experiencing connectivity problems with the VPN. The technician has confirmed the VPN is following and other users at the site cannot access the Internet Which of the following commands would MOST likely be used to further troubleshoot?

A. tracer
B. netstate
C. arp
D. dig

Answer: B

QUESTION: 620
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

Answer: A

QUESTION: 621
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. But

Answer: D

QUESTION: 622
A university has a lecture hall containing 100 students Currently, the lecture hall has two 802 11acwiretess access pants which can accommodate up to 50 devices each Several students report

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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 sect
D. Distance limitations are preventing the students from connecting

Answer: C

QUESTION: 623
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

Answer: D

QUESTION: 624
Which of the following operate only within the UDP protocol?

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

Answer: A

QUESTION: 625
When configuring a new switch in a packet-switched network which of the following helps protect against network loops?

A. Spanning tree
B. Flood guard
C. BPDU guard
D. DHCP snooping

Answer: A

QUESTION: 626
A network technician is segments network traffic into various broadcast domains. Which of the following should the network technician utilize?

A. VLAN

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B. STP
C. ACL
D. BPDU

Answer: A

QUESTION: 627
While testing an ACL on the default gateway router to allow only web browsing ports TCP 80 and TCP 443 were the only ports open When tested no websites were accessible via their URLs reside the network Which of the following configurations should be added to the ACL"?

A. permit tcp any any eq 20
B. permit udp any any eq 25
C. permit udp any any eq 53
D. permit udp any any eq 68
E. permit tcp any any eq 110
F. permit tcp any any eq 8080

Answer: B

QUESTION: 628
Which of the following should be configured to allow for IP-to-name resolutions?

A. CNAME
B. A
C. PTR
D. NS

Answer: A

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