

N10-007 Dumps

CompTIA Network+ N10-007

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NEW QUESTION 1

- (Exam Topic 1)

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

NEW QUESTION 2

- (Exam Topic 1)

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

NEW QUESTION 3

- (Exam Topic 1)

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

NEW QUESTION 4

- (Exam Topic 1)

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

NEW QUESTION 5

- (Exam Topic 1)

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 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

NEW QUESTION 6

- (Exam Topic 1)

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

NEW QUESTION 7

- (Exam Topic 1)

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: AC

NEW QUESTION 8

- (Exam Topic 1)

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

Answer: B

NEW QUESTION 9

- (Exam Topic 1)

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

NEW QUESTION 10

- (Exam Topic 1)

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

NEW QUESTION 10

- (Exam Topic 1)

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

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

Answer: AD

Explanation:

Trivial FTP (TFTP) is a connectionless file transfer program.

NEW QUESTION 12

- (Exam Topic 1)

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

NEW QUESTION 14

- (Exam Topic 1)

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

NEW QUESTION 18

- (Exam Topic 1)

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

NEW QUESTION 23

- (Exam Topic 1)

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

Answer: A

NEW QUESTION 26

- (Exam Topic 1)

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. tracer
- B. ping
- C. tcpdump
- D. pathping
- E. netstate
- F. nslookup
- G. route

Answer: EF

NEW QUESTION 30

- (Exam Topic 1)

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: AC

NEW QUESTION 35

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 37

- (Exam Topic 1)

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

NEW QUESTION 40

- (Exam Topic 1)

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

NEW QUESTION 45

- (Exam Topic 1)

802.11 n 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

NEW QUESTION 46

- (Exam Topic 1)

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

NEW QUESTION 49

- (Exam Topic 1)

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

NEW QUESTION 50

- (Exam Topic 1)

A network technician has unable to make a 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 UTP instead of STP.
- C. The cables are 6 instead of Cat 5.
- D. The cables plenum rated.

Answer: D

NEW QUESTION 52

- (Exam Topic 1)

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

NEW QUESTION 54

- (Exam Topic 1)

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: EF

NEW QUESTION 55

- (Exam Topic 1)

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
- D. Firewall

Answer: B

NEW QUESTION 56

- (Exam Topic 1)

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

NEW QUESTION 58

- (Exam Topic 1)

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. Honeytrap

Answer: A

NEW QUESTION 62

- (Exam Topic 1)

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

NEW QUESTION 66

- (Exam Topic 1)

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: BE

NEW QUESTION 68

- (Exam Topic 1)

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

NEW QUESTION 69

- (Exam Topic 1)

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

NEW QUESTION 73

- (Exam Topic 1)

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

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

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

Answer: C

NEW QUESTION 75

- (Exam Topic 1)

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

Answer: A

NEW QUESTION 78

- (Exam Topic 1)

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

NEW QUESTION 81

- (Exam Topic 1)

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

NEW QUESTION 86

- (Exam Topic 1)

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 IaaS
- E. MTU size greater than 12000

Answer: BD

NEW QUESTION 90

- (Exam Topic 1)

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 interference, 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

NEW QUESTION 95

- (Exam Topic 1)

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: CF

Explanation:

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 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.

NEW QUESTION 100

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 101

- (Exam Topic 1)

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

Answer: D

NEW QUESTION 104

- (Exam Topic 1)

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

NEW QUESTION 109

- (Exam Topic 1)

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

NEW QUESTION 110

- (Exam Topic 1)

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

NEW QUESTION 114

- (Exam Topic 1)

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

NEW QUESTION 116

- (Exam Topic 1)

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

NEW QUESTION 119

- (Exam Topic 1)

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

NEW QUESTION 121

- (Exam Topic 1)

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

NEW QUESTION 125

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 129

- (Exam Topic 1)

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

NEW QUESTION 130

- (Exam Topic 1)

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

NEW QUESTION 131

- (Exam Topic 1)

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

NEW QUESTION 134

- (Exam Topic 1)

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

NEW QUESTION 139

- (Exam Topic 1)

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

Answer: C

NEW QUESTION 142

- (Exam Topic 1)

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

NEW QUESTION 143

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 144

- (Exam Topic 1)

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

NEW QUESTION 149

- (Exam Topic 1)

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

NEW QUESTION 151

- (Exam Topic 1)

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

NEW QUESTION 153

- (Exam Topic 1)

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

NEW QUESTION 155

- (Exam Topic 1)

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

NEW QUESTION 160

- (Exam Topic 1)

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

Answer: C

NEW QUESTION 162

- (Exam Topic 1)

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 acces
- B. Session hijacking involves overriding a user's web connection to execute commands
- C. VLAN hopping is a brute force attack executed to gain additional acces
- D. Session hijacking involves physically disrupting a network connection
- E. VLAN hopping involves overriding a user network connection to execute malicious command
- F. Session hijacking involves compromising a host to elevate privileges
- G. VLAN hopping is the act of exploiting poor VLAN taggin
- H. Session hijacking is a web-based attack aimed at privilege escalation

Answer: A

NEW QUESTION 165

- (Exam Topic 1)

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

NEW QUESTION 168

- (Exam Topic 1)

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

NEW QUESTION 172

- (Exam Topic 1)

Which of the following protocols do MOST MITM attacks utilize?

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

Answer: A

NEW QUESTION 176

- (Exam Topic 1)

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

NEW QUESTION 181

- (Exam Topic 1)

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

NEW QUESTION 186

- (Exam Topic 1)

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

NEW QUESTION 189

- (Exam Topic 1)

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

Answer: A

NEW QUESTION 193

- (Exam Topic 1)

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

NEW QUESTION 195

- (Exam Topic 1)

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

NEW QUESTION 200

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 204

- (Exam Topic 1)

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: ACG

NEW QUESTION 205

- (Exam Topic 1)

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

Answer: C

NEW QUESTION 208

- (Exam Topic 1)

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

NEW QUESTION 212

- (Exam Topic 1)

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: AB

NEW QUESTION 215

- (Exam Topic 1)

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

NEW QUESTION 217

- (Exam Topic 1)

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

NEW QUESTION 219

- (Exam Topic 1)

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

NEW QUESTION 223

- (Exam Topic 1)

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

NEW QUESTION 224

- (Exam Topic 1)

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

NEW QUESTION 228

- (Exam Topic 1)

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

Answer: C

NEW QUESTION 231

- (Exam Topic 1)

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

NEW QUESTION 235

- (Exam Topic 1)

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 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

NEW QUESTION 236

- (Exam Topic 1)

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

Answer: C

NEW QUESTION 239

- (Exam Topic 1)

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

NEW QUESTION 240

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 244

- (Exam Topic 1)

A network administrator is performing a major 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

NEW QUESTION 248

- (Exam Topic 1)

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

Answer: C

NEW QUESTION 251

- (Exam Topic 1)

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

NEW QUESTION 253

- (Exam Topic 1)

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

Answer: A

NEW QUESTION 258

- (Exam Topic 1)

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

NEW QUESTION 261

- (Exam Topic 1)

Which of the following BEST describes an exploit?

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

Answer: D

NEW QUESTION 262

- (Exam Topic 1)

A company is allowing its employees to use their personal computers, tables, 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

Answer: C

NEW QUESTION 263

- (Exam Topic 1)

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

NEW QUESTION 268

- (Exam Topic 1)

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: BC

NEW QUESTION 271

- (Exam Topic 1)

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

NEW QUESTION 273

- (Exam Topic 1)

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

NEW QUESTION 277

- (Exam Topic 1)

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

Answer: C

NEW QUESTION 280

- (Exam Topic 1)

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

Answer: B

NEW QUESTION 284

- (Exam Topic 1)

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

Answer: A

NEW QUESTION 289

- (Exam Topic 1)

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

NEW QUESTION 291

- (Exam Topic 1)

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

Answer: BD

NEW QUESTION 294

- (Exam Topic 1)

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: AB

NEW QUESTION 296

- (Exam Topic 1)

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

NEW QUESTION 298

- (Exam Topic 1)

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

NEW QUESTION 301

- (Exam Topic 1)

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

NEW QUESTION 303

- (Exam Topic 1)

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

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

Answer: ABD

NEW QUESTION 308

- (Exam Topic 1)

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

NEW QUESTION 311

- (Exam Topic 2)

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

NEW QUESTION 315

- (Exam Topic 2)

Which of the following uses port 53 by default?

- A. RDP
- B. QoS
- C. DHCP
- D. DNS

Answer: D

NEW QUESTION 319

- (Exam Topic 2)

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

NEW QUESTION 322

- (Exam Topic 2)

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

NEW QUESTION 325

- (Exam Topic 2)

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

NEW QUESTION 327

- (Exam Topic 2)

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

NEW QUESTION 329

- (Exam Topic 2)

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

NEW QUESTION 331

- (Exam Topic 2)

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: DE

NEW QUESTION 335

- (Exam Topic 2)

Which of the following protocols is used to transmit outgoing email?

- A. RDP
- B. NTP
- C. POP3
- D. SMTP

Answer: D

NEW QUESTION 339

- (Exam Topic 2)

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

NEW QUESTION 344

- (Exam Topic 2)

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

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

Answer: C

NEW QUESTION 345

- (Exam Topic 2)

Which of the following is used to assign an IP address to a device?

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

Answer: A

NEW QUESTION 347

- (Exam Topic 2)

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

- A. Multicast
- B. Public
- C. Private
- D. Classful

Answer: C

NEW QUESTION 350

- (Exam Topic 2)

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

Answer: A

NEW QUESTION 352

- (Exam Topic 2)

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

NEW QUESTION 355

- (Exam Topic 2)

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

NEW QUESTION 360

- (Exam Topic 2)

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

NEW QUESTION 363

- (Exam Topic 2)

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

NEW QUESTION 364

- (Exam Topic 2)

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

NEW QUESTION 368

- (Exam Topic 2)

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

NEW QUESTION 369

- (Exam Topic 2)

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?

- 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

NEW QUESTION 373

- (Exam Topic 2)

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
- B. Network-based firewall
- C. SSL VPN
- D. Host-based firewall

Answer: C

NEW QUESTION 376

- (Exam Topic 2)

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: BC

NEW QUESTION 381

- (Exam Topic 2)

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

NEW QUESTION 386

- (Exam Topic 2)

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

NEW QUESTION 387

- (Exam Topic 2)

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

NEW QUESTION 389

- (Exam Topic 2)

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

NEW QUESTION 392

- (Exam Topic 2)

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

NEW QUESTION 393

- (Exam Topic 2)

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

NEW QUESTION 398

- (Exam Topic 2)

Which of the following is used to provide hot standby capabilities using paired routers?

- A. CARP
- B. L2TP
- C. PPTP
- D. ISAKMP

Answer: A

NEW QUESTION 399

- (Exam Topic 2)

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

NEW QUESTION 400

- (Exam Topic 2)

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

NEW QUESTION 403

- (Exam Topic 2)

Which of the following MUST be kept synchronized in order for Kerberos to work?

- A. Certificate
- B. Ticket
- C. Time
- D. Token

Answer: C

NEW QUESTION 405

- (Exam Topic 2)

Which of the following devices exist as either hardware or software to assist in routing traffic? (Select TWO).

- A. Cable modem
- B. Layer 2 switch
- C. Router
- D. NIDS
- E. Layer 3 switch

Answer: CE

NEW QUESTION 408

- (Exam Topic 2)

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

NEW QUESTION 413

- (Exam Topic 2)

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

NEW QUESTION 418

- (Exam Topic 2)

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

NEW QUESTION 420

- (Exam Topic 2)

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

NEW QUESTION 424

- (Exam Topic 2)

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

NEW QUESTION 426

- (Exam Topic 2)

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

NEW QUESTION 430

- (Exam Topic 2)

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

NEW QUESTION 432

- (Exam Topic 2)

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

NEW QUESTION 433

- (Exam Topic 2)

The Transport Layer of the TCP/IP model corresponds to which of the following layers of the OSI model?

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

Answer: C

NEW QUESTION 435

- (Exam Topic 2)

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

Answer: D

NEW QUESTION 436

- (Exam Topic 2)

Which of the following could be used to stop unknown threats?

- A. DMZ
- B. Signature based IPS
- C. Behavior based IPS

D. Honeypots

Answer: C

NEW QUESTION 437

- (Exam Topic 2)

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

NEW QUESTION 438

- (Exam Topic 2)

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

NEW QUESTION 439

- (Exam Topic 2)

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: DE

NEW QUESTION 441

- (Exam Topic 3)

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

NEW QUESTION 444

- (Exam Topic 3)

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

NEW QUESTION 449

- (Exam Topic 3)

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

NEW QUESTION 451

- (Exam Topic 3)

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?

- A. Butt set
- B. Punch down tool
- C. Toner probe
- D. Protocol analyzer

Answer: C

NEW QUESTION 453

- (Exam Topic 3)

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
- D. MAC filtering

Answer: D

NEW QUESTION 456

- (Exam Topic 3)

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

Explanation:

A network analyzer is a useful tool, helping you do things like track traffic and malicious usage on the network.

NEW QUESTION 459

- (Exam Topic 3)

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

NEW QUESTION 461

- (Exam Topic 3)

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

NEW QUESTION 464

- (Exam Topic 3)

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

NEW QUESTION 468

- (Exam Topic 3)

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

NEW QUESTION 470

- (Exam Topic 3)

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

NEW QUESTION 472

- (Exam Topic 3)

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

NEW QUESTION 473

- (Exam Topic 3)

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

NEW QUESTION 478

- (Exam Topic 3)

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

NEW QUESTION 481

- (Exam Topic 3)

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
- C. Serial
- D. CAT6

Answer: D

NEW QUESTION 486

- (Exam Topic 3)

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

NEW QUESTION 487

- (Exam Topic 3)

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. Spatial reuse
- D. 20MHz channel spacing

Answer: A

NEW QUESTION 488

- (Exam Topic 3)

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

NEW QUESTION 492

- (Exam Topic 3)

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

NEW QUESTION 495

- (Exam Topic 3)

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

NEW QUESTION 497

- (Exam Topic 3)

Which of the following IP addresses would be classified as private?

- A. 10.100.200.0
- B. 169.253.10.20
- C. 172.168.5.0
- D. 200.100.25.0

Answer: A

NEW QUESTION 498

- (Exam Topic 3)

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

NEW QUESTION 501

- (Exam Topic 3)

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

NEW QUESTION 502

- (Exam Topic 3)

169.254.1.100 is an IP address which would MOST likely come from which of the following?

- A. CIDR
- B. DHCP
- C. APIPA
- D. DNS

Answer: C

NEW QUESTION 503

- (Exam Topic 3)

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 address on the fiber interface

Answer: A

NEW QUESTION 507

- (Exam Topic 3)

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

NEW QUESTION 511

- (Exam Topic 3)

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

NEW QUESTION 516

- (Exam Topic 3)

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

NEW QUESTION 519

- (Exam Topic 3)

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

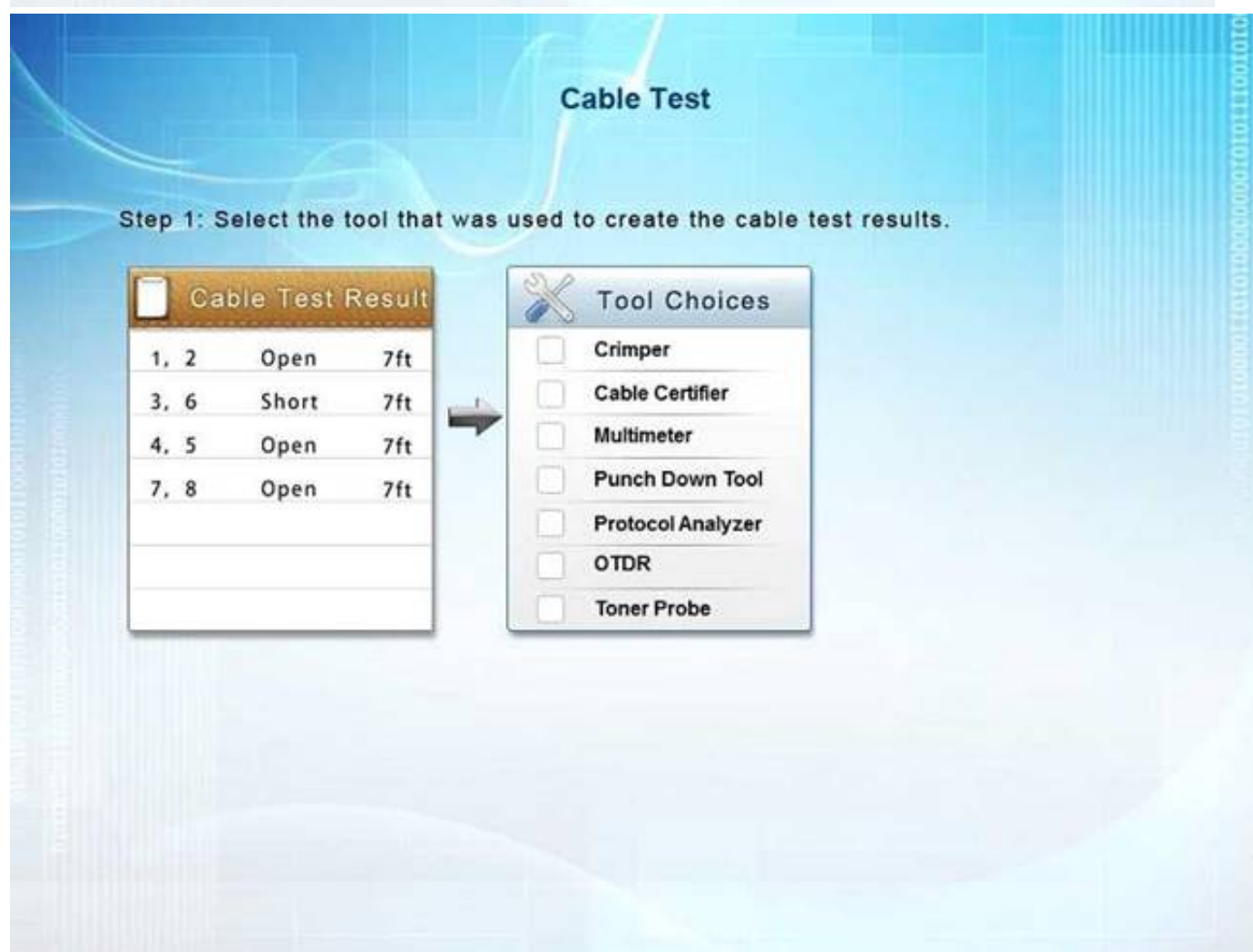
Answer: D

NEW QUESTION 523

- (Exam Topic 3)

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.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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.

NEW QUESTION 528

- (Exam Topic 3)

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

NEW QUESTION 532

- (Exam Topic 3)

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 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

NEW QUESTION 536

- (Exam Topic 3)

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

NEW QUESTION 537

- (Exam Topic 3)

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

NEW QUESTION 540

- (Exam Topic 3)

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

NEW QUESTION 545

- (Exam Topic 3)

Kim, a network administrator, should consult which documentation sources FIRST to determine the cause of recent network issues?

- A. Network map
- B. Cable management
- C. Change management
- D. Asset management

Answer: C

NEW QUESTION 550

- (Exam Topic 3)

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

NEW QUESTION 555

- (Exam Topic 3)

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

NEW QUESTION 559

- (Exam Topic 3)

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

NEW QUESTION 563

- (Exam Topic 3)

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

NEW QUESTION 566

- (Exam Topic 3)

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

NEW QUESTION 568

- (Exam Topic 3)

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

NEW QUESTION 573

- (Exam Topic 3)

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

NEW QUESTION 575

- (Exam Topic 3)

Which of the following will prevent switching loops by selectively shutting down switch ports?

- A. RIP
- B. IGP
- C. STP
- D. VLAN

Answer: C

NEW QUESTION 576

- (Exam Topic 3)

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

NEW QUESTION 577

- (Exam Topic 3)

At which of the following layers of the OSI model do packets exist?

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

Answer: A

NEW QUESTION 578

- (Exam Topic 3)

Which of the following diagnostic commands relies on proper forwarding of ICMP ECHO packets?

- A. ipconfig
- B. ping
- C. route
- D. nbstat

Answer: B

NEW QUESTION 583

- (Exam Topic 3)

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

NEW QUESTION 586

- (Exam Topic 3)

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

NEW QUESTION 588

- (Exam Topic 3)

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

NEW QUESTION 592

- (Exam Topic 3)

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

NEW QUESTION 597

- (Exam Topic 3)

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. tracer

Answer: D

NEW QUESTION 599

- (Exam Topic 3)

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

NEW QUESTION 600

- (Exam Topic 3)

ADSL 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

NEW QUESTION 605

- (Exam Topic 3)

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

NEW QUESTION 607

- (Exam Topic 3)

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

NEW QUESTION 610

- (Exam Topic 3)

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

Answer: C

NEW QUESTION 611

- (Exam Topic 3)

A technician is surveying college's network equipment room and connectivity. Which of the following 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: ACG

NEW QUESTION 614

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