

# Exam Questions N10-007

CompTIA Network+ N10-007

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#### NEW QUESTION 1

- (Exam Topic 1)

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

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

**Answer:** C

#### NEW QUESTION 2

- (Exam Topic 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

**Answer:** C

#### NEW QUESTION 3

- (Exam Topic 1)

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
- D. Network baseline

**Answer:** A

#### NEW QUESTION 4

- (Exam Topic 1)

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
- F. 192.168.1.55

**Answer:** DE

#### 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)

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

#### 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)

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

#### NEW QUESTION 9

- (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 10

- (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 15

- (Exam Topic 1)

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.

**Answer:** D

#### NEW QUESTION 18

- (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 19

- (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 24

- (Exam Topic 1)

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

#### NEW QUESTION 25

- (Exam Topic 1)

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

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

**Answer:** A

#### NEW QUESTION 28

- (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 31

- (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 34

- (Exam Topic 1)

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.

**Answer:** C

#### NEW QUESTION 37

- (Exam Topic 1)

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

#### NEW QUESTION 39

- (Exam Topic 1)

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

**Answer:** A

#### NEW QUESTION 43

- (Exam Topic 1)

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

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

**Answer:** C

#### NEW QUESTION 47

- (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 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

#### NEW QUESTION 53

- (Exam Topic 1)

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

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

- D. iSCSI
- E. FTP

**Answer:** A

#### NEW QUESTION 58

- (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 62

- (Exam Topic 1)

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

#### NEW QUESTION 65

- (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 68

- (Exam Topic 1)

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:** CD

#### NEW QUESTION 70

- (Exam Topic 1)

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

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

**Answer:** D

#### NEW QUESTION 72

- (Exam Topic 1)

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

#### NEW QUESTION 75

- (Exam Topic 1)

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

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

**Answer:** B

#### NEW QUESTION 77

- (Exam Topic 1)

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

#### NEW QUESTION 79

- (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 83

- (Exam Topic 1)

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

#### NEW QUESTION 87

- (Exam Topic 1)

AContent 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 91

- (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 92

- (Exam Topic 1)

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

#### NEW QUESTION 96

- (Exam Topic 1)

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

#### NEW QUESTION 99

- (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 103

- (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 104

- (Exam Topic 1)

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

**Answer:** C

#### Explanation:

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

#### NEW QUESTION 105

- (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 107

- (Exam Topic 1)

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

#### NEW QUESTION 108

- (Exam Topic 1)

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

#### NEW QUESTION 112

- (Exam Topic 1)

A junior technician is setting up a voice control device so the Chief Executive Officer (CEO) will be 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

**Answer:** D

#### NEW QUESTION 116

- (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 118

- (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 121

- (Exam Topic 1)

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

#### NEW QUESTION 124

- (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 125

- (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 129

- (Exam Topic 1)

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

**Answer:** A

#### NEW QUESTION 130

- (Exam Topic 1)

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

#### NEW QUESTION 135

- (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 138

- (Exam Topic 1)

Which of the following is recognized as the SMALLEST network type?

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

**Answer:** C

#### Explanation:

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://compinfo.pro.com/types-of-network-pan-man-wlan-san-can-dan/>

#### NEW QUESTION 142

- (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 147

- (Exam Topic 1)

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

#### NEW QUESTION 148

- (Exam Topic 1)

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

#### NEW QUESTION 153

- (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 156

- (Exam Topic 1)

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:** AB

#### NEW QUESTION 158

- (Exam Topic 1)

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

#### NEW QUESTION 163

- (Exam Topic 1)

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

#### NEW QUESTION 168

- (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 173

- (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 178

- (Exam Topic 1)

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

#### NEW QUESTION 181

- (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 184

- (Exam Topic 1)

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

#### NEW QUESTION 185

- (Exam Topic 1)

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

#### NEW QUESTION 189

- (Exam Topic 1)

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

#### NEW QUESTION 191

- (Exam Topic 1)

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

#### NEW QUESTION 194

- (Exam Topic 1)

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

#### NEW QUESTION 199

- (Exam Topic 1)

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

#### NEW QUESTION 203

- (Exam Topic 1)

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

#### NEW QUESTION 207

- (Exam Topic 1)

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
- C. OTDR
- D. Loopback adapter

**Answer:** A

#### NEW QUESTION 210

- (Exam Topic 1)

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

**Answer:** E

#### NEW QUESTION 211

- (Exam Topic 1)

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

#### Explanation:

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.

#### NEW QUESTION 216

- (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 securely? (Select TWO)

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

**Answer:** BC



#### NEW QUESTION 220

- (Exam Topic 1)

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

#### NEW QUESTION 222

- (Exam Topic 1)

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.

**Answer:** B

#### NEW QUESTION 224

- (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 227

- (Exam Topic 1)

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

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

**Answer:** B

#### NEW QUESTION 228

- (Exam Topic 1)

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

- 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

#### NEW QUESTION 232

- (Exam Topic 1)

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

#### NEW QUESTION 233

- (Exam Topic 1)

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

#### NEW QUESTION 237

- (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 240

- (Exam Topic 1)

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

**Answer:** A

#### NEW QUESTION 242

- (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 245

- (Exam Topic 2)

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

#### NEW QUESTION 250

- (Exam Topic 2)

Which of the following uses port 53 by default?

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

**Answer:** D

#### NEW QUESTION 251

- (Exam Topic 2)

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

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

**Answer:** B

#### NEW QUESTION 253

- (Exam Topic 2)

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

#### NEW QUESTION 255

- (Exam Topic 2)

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

#### NEW QUESTION 259

- (Exam Topic 2)

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

#### NEW QUESTION 264

- (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 267

- (Exam Topic 2)

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

#### NEW QUESTION 269

- (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 273

- (Exam Topic 2)

Which of the following cables has the MOST twists per inch?

- A. CAT3
- B. CAT5
- C. CAY5e
- D. CAT6

**Answer:** D

#### NEW QUESTION 274

- (Exam Topic 2)

Which of the following uses certificates as a form of security?

- A. Kerberos
- B. LDAP
- C. PKI
- D. CHAP

**Answer:** C

#### NEW QUESTION 278

- (Exam Topic 2)

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

#### NEW QUESTION 283

- (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 285

- (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 288

- (Exam Topic 2)

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

#### NEW QUESTION 290

- (Exam Topic 2)

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

#### NEW QUESTION 292

- (Exam Topic 2)

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

#### NEW QUESTION 296

- (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 299

- (Exam Topic 2)

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

#### NEW QUESTION 300

- (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 301

- (Exam Topic 2)

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

#### NEW QUESTION 305

- (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 306

- (Exam Topic 2)

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

**NEW QUESTION 309**

- (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 311**

- (Exam Topic 2)

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

**NEW QUESTION 315**

- (Exam Topic 2)

Which of the following ports does DHCP use? (Select TWO).

- A. 22
- B. 23
- C. 67
- D. 68
- E. 69

**Answer:** CD

**NEW QUESTION 318**

- (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 322**

- (Exam Topic 2)

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

**NEW QUESTION 325**

- (Exam Topic 2)

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

**NEW QUESTION 326**

- (Exam Topic 2)

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

#### NEW QUESTION 330

- (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 331

- (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 336

- (Exam Topic 2)

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

#### NEW QUESTION 339

- (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 342

- (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 346

- (Exam Topic 2)

Which of the following protocols uses port 3389?

- A. IMAP
- B. DHCP
- C. SSH
- D. RDP

**Answer:** D

#### NEW QUESTION 349

- (Exam Topic 2)

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

#### NEW QUESTION 351

- (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 355

- (Exam Topic 3)

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

#### NEW QUESTION 359

- (Exam Topic 3)

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

#### NEW QUESTION 362

- (Exam Topic 3)

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

#### NEW QUESTION 367

- (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 368

- (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 371

- (Exam Topic 3)

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
- B. Network sniffer
- C. Load balancing appliance
- D. NIPS

**Answer:** B

#### NEW QUESTION 376

- (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 380

- (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 383

- (Exam Topic 3)

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

#### NEW QUESTION 386

- (Exam Topic 3)

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

#### NEW QUESTION 390

- (Exam Topic 3)

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

#### NEW QUESTION 395

- (Exam Topic 3)

Which of the following should be implemented in a networked environment carrying teleconferencing packets?

- A. L2TP
- B. SSH
- C. QoS
- D. SNMP

**Answer:** C

#### NEW QUESTION 398

- (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 401

- (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 406

- (Exam Topic 3)

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

#### NEW QUESTION 408

- (Exam Topic 3)

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

#### NEW QUESTION 413

- (Exam Topic 3)

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?

- A. STP blocking
- B. IP addresses
- C. MTU mismatch
- D. Switching loop

**Answer:** D

#### NEW QUESTION 418

- (Exam Topic 3)

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

#### NEW QUESTION 423

- (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 428

- (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 432

- (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 435

- (Exam Topic 3)

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:** AB

#### NEW QUESTION 438

- (Exam Topic 3)

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:** AD

#### NEW QUESTION 441

- (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 445

- (Exam Topic 3)

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

#### NEW QUESTION 448

- (Exam Topic 3)

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

#### NEW QUESTION 450

- (Exam Topic 3)

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

#### NEW QUESTION 451

- (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

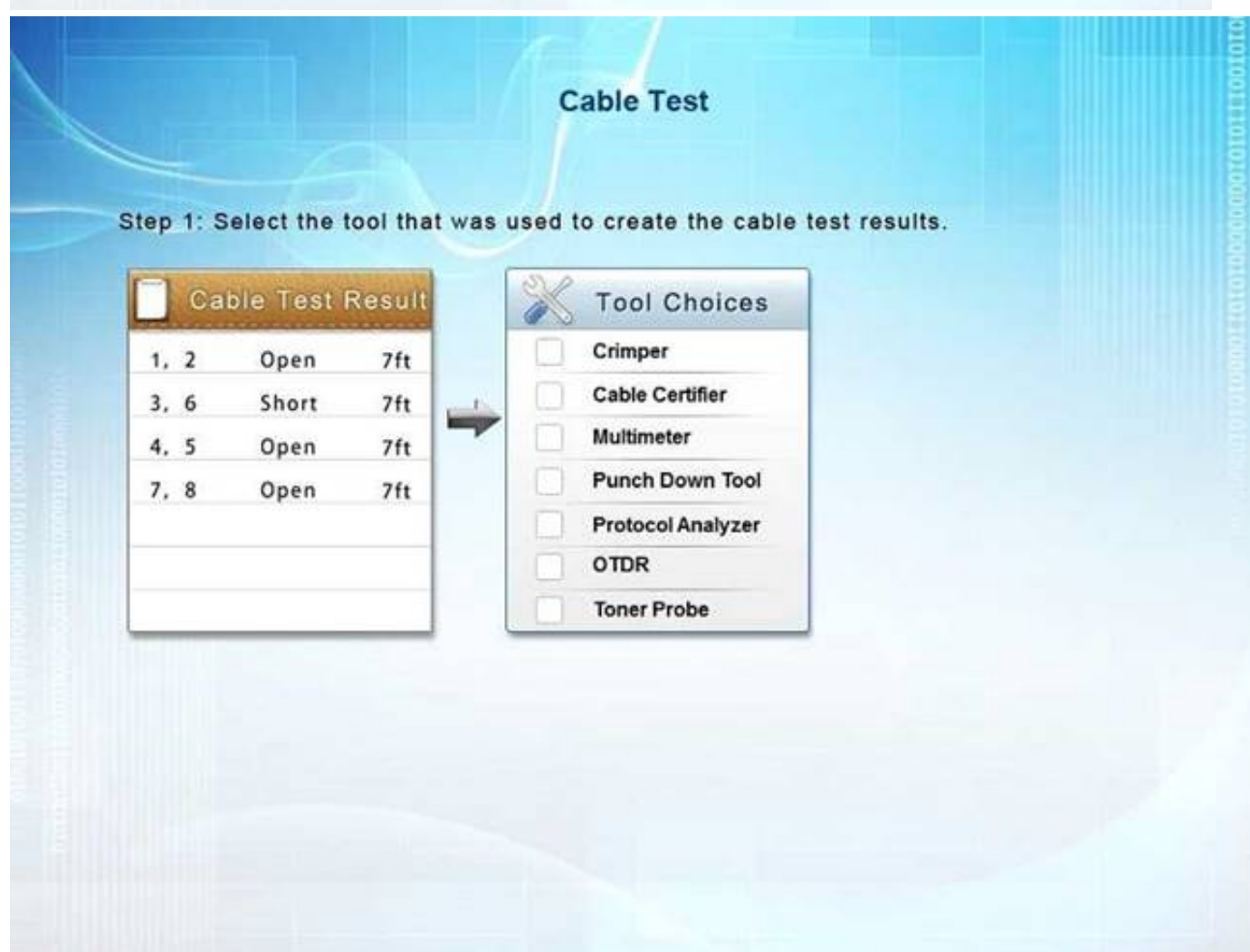
#### NEW QUESTION 452

- (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 455**

- (Exam Topic 3)

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**

**NEW QUESTION 460**

- (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 464**

- (Exam Topic 3)

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

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

**Answer:** D

**NEW QUESTION 467**

- (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 472**

- (Exam Topic 3)

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

**NEW QUESTION 474**

- (Exam Topic 3)

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

**NEW QUESTION 475**

- (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 479**

- (Exam Topic 3)

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

#### NEW QUESTION 484

- (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 489

- (Exam Topic 3)

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 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.

**Answer:** D

#### NEW QUESTION 491

- (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 494

- (Exam Topic 3)

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

#### NEW QUESTION 495

- (Exam Topic 3)

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

#### NEW QUESTION 498

- (Exam Topic 3)

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

#### NEW QUESTION 502

- (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 507

- (Exam Topic 3)

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 IoT technologies is this an example?

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

**Answer:** B

#### NEW QUESTION 511

- (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 514

- (Exam Topic 3)

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

#### NEW QUESTION 516

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