

# CompTIA

## Exam Questions N10-007

CompTIA Network+ N10-007



**NEW QUESTION 1**

- (Exam Topic 1)

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

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

**Answer: C**

**NEW QUESTION 2**

- (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 3**

- (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 4**

- (Exam Topic 1)

Which of the following DNS record types is an alias?

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

**Answer: A**

**NEW QUESTION 5**

- (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 6**

- (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 7**

- (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 8

- (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 9

- (Exam Topic 1)

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

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

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

**Answer: C**

#### NEW QUESTION 10

- (Exam Topic 1)

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

- A. ACL allowing only HTTP
- B. ACL allowing only Telnet
- C. Out-of-band modem
- D. Out-of-band console router

**Answer: D**

#### NEW QUESTION 10

- (Exam Topic 1)

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

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

**Answer: B**

#### NEW QUESTION 13

- (Exam Topic 1)

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

- A. Switch
- B. Router
- C. Media converter
- D. PTP wireless

**Answer:** D

**NEW QUESTION 15**

- (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 20**

- (Exam Topic 1)

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

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

**Answer:** A

**NEW QUESTION 22**

- (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 25**

- (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 29**

- (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. tracer
- C. arp
- D. ipconfig
- E. route

**Answer:** A

**NEW QUESTION 34**

- (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 38**

- (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 40**

- (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:

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 43**

- (Exam Topic 1)

A network technician recently installed a new server on a network. The technician must ensure the server does not have any unnecessary services running. The IP address of the server is 204.211.38.50

Which of the following commands would allow the technician to make this determination?

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

**Answer:** A

**NEW QUESTION 45**

- (Exam Topic 1)

Which of the following communication media can carry many voice, data, and video channels simultaneously over multiple frequencies?

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

**Answer:** A

**NEW QUESTION 46**

- (Exam Topic 1)

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

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

**Answer:** C

**NEW QUESTION 51**

- (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 53**

- (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 55**

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

**Answer:** EF

**NEW QUESTION 58**

- (Exam Topic 1)

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

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

**Answer:** A

**NEW QUESTION 63**

- (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 64**

- (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 69**

- (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 72

- (Exam Topic 1)

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

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

**Answer:** AD

#### NEW QUESTION 76

- (Exam Topic 1)

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

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

**Answer:** A

#### Explanation:

<https://www.forbes.com/forbes/welcome/?toURL=https://www.forbes.com/sites/gordonkelly/2014/12/30/802-11>

#### NEW QUESTION 79

- (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 83

- (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 87

- (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 91

- (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 95

- (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 100

- (Exam Topic 1)

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

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

**Answer:** C

#### NEW QUESTION 105

- (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 110

- (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 113

- (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 118

- (Exam Topic 1)

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

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

**Answer:** D

#### NEW QUESTION 119

- (Exam Topic 1)

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

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

**Answer:** B

#### NEW QUESTION 121

- (Exam Topic 1)

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

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

**Answer:** C

#### NEW QUESTION 126

- (Exam Topic 1)

A network technician receives a call from a user who is experiencing network connectivity issues. The network technician questions the user and learns the user brought in a personal wired router to use multiple computers and connect to the network. Which of the following has the user MOST likely introduced to the network?

- A. Rogue DHCP server
- B. Evil twin
- C. VLAN mismatch
- D. Honeypot

**Answer:** A

#### NEW QUESTION 129

- (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 133

- (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 134

- (Exam Topic 1)

A technician is configuring a printer for a client. The technician types the IP address to the network, but is unsure how to determine its switch port. Which of the following should the technician do FIRST to locate switch port?

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

**Answer:** D

**NEW QUESTION 135**

- (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 138**

- (Exam Topic 1)

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

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

**Answer:** A

**NEW QUESTION 140**

- (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 141**

- (Exam Topic 1)

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

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

**Answer:** C

**NEW QUESTION 144**

- (Exam Topic 1)

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

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

**Answer:** B

**NEW QUESTION 146**

- (Exam Topic 1)

A network technician is working on a proposal for email migration from an on-premises email system to a vendor-hosted email in the cloud. The technician needs to explain to management what type of cloud model will be utilized with the cloud-hosted email. Which of the following cloud models should the technician identify in the proposal?

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

**Answer:** C

**NEW QUESTION 149**

- (Exam Topic 1)

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

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

**Answer:** A

#### NEW QUESTION 154

- (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 159

- (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 163

- (Exam Topic 1)

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

Which of the following devices is causing the issue?

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

**Answer:** B

#### NEW QUESTION 166

- (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 171

- (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 172**

- (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 174**

- (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 175**

- (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 178**

- (Exam Topic 1)

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

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

**Answer:** A

**NEW QUESTION 181**

- (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 185**

- (Exam Topic 1)

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

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

**Answer:** C

**NEW QUESTION 189**

- (Exam Topic 1)

A technician is responsible for configuring a new firewall. The hardware team has already installed, powered, and connected the system. Which of the following types of documentation should the technician utilize to complete the task?

- A. Rack diagram
- B. IDF/MDF documentation
- C. Network performance baseline
- D. Logical and physical diagrams

**Answer:** D

**NEW QUESTION 191**

- (Exam Topic 1)

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

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

**Answer:** D

**NEW QUESTION 195**

- (Exam Topic 1)

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

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

**Answer:** D

**NEW QUESTION 199**

- (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 201**

- (Exam Topic 1)

The security manager reports that individual systems involved in policy or security violations or incidents cannot be located quickly. The security manager notices the hostnames all appear to be randomly generated characters. Which of the following would BEST assist the security manager in identifying systems involved in security incidents?

- A. Enforce port security to require system authentication
- B. Implement a standardized UNC
- C. Label existing systems with current hostnames
- D. Forward the DHCP logs to the security manager every day

**Answer:** B

**NEW QUESTION 205**

- (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 the issue, which of the following would be the most likely course of action for the technician to perform next?

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

**Answer:** A

**NEW QUESTION 208**

- (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 210

- (Exam Topic 1)

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

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

**Answer:** A

#### NEW QUESTION 214

- (Exam Topic 1)

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

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

**Answer:** B

#### NEW QUESTION 215

- (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 218

- (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 219

- (Exam Topic 1)

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

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

**Answer:** B

#### NEW QUESTION 223

- (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 ....meeting 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 227

- (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 232

- (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 235

- (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 239

- (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 243

- (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 245

- (Exam Topic 1)

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

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

**Answer:** C

**NEW QUESTION 246**

- (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 249**

- (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 252**

- (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 253**

- (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 257**

- (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 261**

- (Exam Topic 1)

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

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

**Answer:** B

**NEW QUESTION 264**

- (Exam Topic 1)

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

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

**Answer:** C

**NEW QUESTION 265**

- (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 269**

- (Exam Topic 1)

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

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

**Answer:** C

**NEW QUESTION 272**

- (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 273**

- (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 278**

- (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 282

- (Exam Topic 1)

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

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

**Answer:** D

#### NEW QUESTION 287

- (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 292

- (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 293

- (Exam Topic 1)

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

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

**Answer:** A

#### NEW QUESTION 297

- (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 300

- (Exam Topic 1)

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

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

**Answer:** AC

#### NEW QUESTION 305

- (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 309

- (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 313

- (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 315

- (Exam Topic 1)

A technician has been alerted of incoming HTTP traffic on the LAN segment that should not contain any web server's traffic. 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 318

- (Exam Topic 1)

A network technician has created a network that consists of a router, a firewall, a switch, and several PCs. Which of the following physical network topologies was created?

- A. Star
- B. Mesh
- C. Ring
- D. Bus

**Answer: D**

#### NEW QUESTION 321

- (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 322

- (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 324

- (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 328

- (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 329

- (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 334

- (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 335

- (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 336

- (Exam Topic 1)

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

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

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

**Answer: C**

#### NEW QUESTION 341

- (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 343

- (Exam Topic 1)

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

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

**Answer: EFG**

#### NEW QUESTION 347

- (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 349

- (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:

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 352

- (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 357

- (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 361

- (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 364**

- (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 367**

- (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 371**

- (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 375**

- (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 378**

- (Exam Topic 1)

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

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

**Answer:** B

**NEW QUESTION 383**

- (Exam Topic 1)

Which of the following will listen on the line to ensure there is no traffic transmitting and implement a back-off timer if a collision occurs?

- A. CSMA/CD
- B. CSMA/CA
- C. MPLS
- D. OSPF

**Answer:** A

**NEW QUESTION 386**

- (Exam Topic 1)

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

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

**Answer:** A

#### NEW QUESTION 389

- (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 393

- (Exam Topic 1)

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

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

**Answer:** A

#### NEW QUESTION 398

- (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 399

- (Exam Topic 2)

Tenants access multiple wireless networks in a building. Users report intermittent connectivity. Which of the following is the MOST likely cause of the problem?

- A. The channels are overlapping with other wireless networks and should be changed.
- B. The SSIDs are incompatible and should be renamed.
- C. The users have incompatible wireless network cards and should upgrade.
- D. The default idle period for logoff is too short and should be changed to a longer limit.

**Answer:** A

#### NEW QUESTION 402

- (Exam Topic 2)

Which of the following uses port 53 by default?

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

**Answer:** D

#### NEW QUESTION 403

- (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 407**

- (Exam Topic 2)

Which of the following is an IPv6 address?

- A. 00:14:38:05:7B:E5
- B. 10.10.1.1
- C. 192.168.1.1
- D. 2001:cdba::3257:9652

**Answer: D**

**NEW QUESTION 412**

- (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 413**

- (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 415**

- (Exam Topic 2)

Which of the following mediums is circuit switched?

- A. PSTN
- B. ATM
- C. Frame relay
- D. MPLS

**Answer: A**

**NEW QUESTION 418**

- (Exam Topic 2)

Which of the following cable types have a rated MAXIMUM bandwidth of 100Mbps?

- A. CAT3
- B. CAT5
- C. CAT5e
- D. CAT6

**Answer: B**

**NEW QUESTION 423**

- (Exam Topic 2)

Which of the following is true about tunneling and encryption?

- A. SIP encrypts all data going through the tunnel.
- B. PPTP creates a secure tunnel.
- C. SSL VPN provides a secure tunnel.
- D. RAS is a secure way to create a tunnel.

**Answer: C**

**NEW QUESTION 425**

- (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 426

- (Exam Topic 2)

Which of the following default ports would need to be open on a firewall to allow remote desktop access?

- A. 143
- B. 443
- C. 3389
- D. 8080

**Answer:** C

#### NEW QUESTION 428

- (Exam Topic 2)

Which of the following is a secure way to connect to a device?

- A. RSH
- B. TFTP
- C. SNMPv2
- D. SFTP

**Answer:** D

#### NEW QUESTION 431

- (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 434

- (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 437

- (Exam Topic 2)

A company wants to only allow incoming HTTP and HTTPS traffic on their public wireless network. Which of the following port numbers should be the only allowed open ports on the firewall to accomplish this? (Select TWO).

- A. 20
- B. 80
- C. 143
- D. 443
- E. 8080

**Answer:** BD

#### NEW QUESTION 442

- (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 445

- (Exam Topic 2)

Jeff, a network engineer, is troubleshooting an issue where clients are not receiving IP addresses from a new, properly configured DHCP server on another subnet. Statically addressed clients can get onto the same network with no issues. Which of the following is causing the issue?

- A. Incorrect VLAN tagging
- B. Missing helper addresses
- C. Wrong default gateway
- D. Improper routing protocols

**Answer:** B

#### NEW QUESTION 449

- (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 454

- (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 459

- (Exam Topic 2)

Lisa, a network administrator, needs to allow all websites to be accessible by the sales team for business purposes. Which of the following ports need to be enabled on the firewall? (Select TWO).

- A. 23
- B. 25
- C. 53
- D. 80
- E. 443

**Answer:** DE

#### NEW QUESTION 461

- (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 465

- (Exam Topic 2)

Kurt, a network technician, has configured a new firewall on the network. Users are reporting errors when attempting to access several websites. Kurt attempts to access several popular websites with no errors, however, he does receive an error when attempting to access a bank website. Which of the following rules would BEST allow access to the bank website?

- A. Allow UDP port 53
- B. Allow TCP port 80
- C. Allow UDP port 340
- D. Allow TCP port 443

**Answer:** D

#### NEW QUESTION 467

- (Exam Topic 2)

Which of the following is a purpose of a VLAN?

- A. Decreases bandwidth on a network
- B. Segments broadcast traffic
- C. Increases port speed

D. Allows another connection to the router

**Answer:** B

**NEW QUESTION 468**

- (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 469**

- (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 474**

- (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 475**

- (Exam Topic 2)

Which of the following is characterized by an attacker attempting to map out an organization's staff hierarchy in order to send targeted emails?

- A. Whaling
- B. Impersonation
- C. Privilege escalation
- D. Spear phishing

**Answer:** A

**NEW QUESTION 476**

- (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 481**

- (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 482**

- (Exam Topic 2)

After plugging a cable into a computer, a user reports there is no network access. Which of the following tools would the technician MOST likely check to verify that the cable was crimped correctly?

- A. Punch down tool
- B. Cable certifier
- C. Loopback plug
- D. Toner probe

**Answer:** B

#### NEW QUESTION 484

- (Exam Topic 2)

Which of the following is the MOST economical way for Sandy, a technician, to implement 10- Gigabit Ethernet at a datacenter?

- A. 10GBaseLR
- B. 10GBaseSR
- C. 10GBaseX
- D. 10GBaseT

**Answer:** D

#### NEW QUESTION 486

- (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 490

- (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 493

- (Exam Topic 2)

An organization has installed a new firewall. Users need to have access to remote websites and must be able to use SSH to retrieve files from remote locations. Which of the following actions should be taken on the new firewall? (Select TWO).

- A. Allow UDP port 21 outbound
- B. Allow UDP port 22 outbound
- C. Allow UDP port 80 outbound
- D. Allow TCP port 21 outbound
- E. Allow TCP port 22 outbound
- F. Allow TCP port 80 outbound

**Answer:** EF

#### NEW QUESTION 496

- (Exam Topic 2)

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

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

**Answer:** A

#### NEW QUESTION 499

- (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 500**

- (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 503**

- (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 505**

- (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 508**

- (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 510**

- (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 513**

- (Exam Topic 2)

Which of the following is an invalid MAC address?

- A. AA:CE:58:FD:90:08
- B. 44:98:3E:F8:33:23
- C. 56:AD:BX:89:55:54
- D. 94:9E:FE:EE:8C:DF

**Answer:** C

**NEW QUESTION 515**

- (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 520

- (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 525

- (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 526

- (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 530

- (Exam Topic 2)

Which of the following allows a technician to gather information about the operating system?

- A. Domain services
- B. Fingerprinting
- C. Countermeasures
- D. Reconnaissance

**Answer:** B

#### NEW QUESTION 531

- (Exam Topic 2)

Which of the following protocols would be used to send email to an email server?

- A. NTP
- B. FTP
- C. SNMP
- D. SMTP

**Answer:** D

#### NEW QUESTION 533

- (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 534**

- (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 539**

- (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 540**

- (Exam Topic 2)

Which of the following network topologies allows only communication to take place from one node at a time by passing a token around the network?

- A. Star
- B. Mesh
- C. Bus
- D. Ring

**Answer:** D

**NEW QUESTION 545**

- (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 550**

- (Exam Topic 2)

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

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

**Answer:** A

**NEW QUESTION 552**

- (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 555**

- (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 560**

- (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 564**

- (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 569**

- (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 574**

- (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 575**

- (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 576**

- (Exam Topic 3)

Which of the following would Kim, a technician, do to monitor remote traffic through an access point?

- A. Enable an SNMP agent
- B. Enable network mapping
- C. Set monitoring SSID
- D. Select WPA2

**Answer:** A

**NEW QUESTION 579**

- (Exam Topic 3)

A new monitoring device is installed in the network that uses ping to determine whether critical network Internet routers are up. After three missing pings, the alarm

reports the device is down. The device is now constantly reporting alarms, yet there are no reported Internet problems from users. Which of the following is the MOST likely cause?

- A. A missing route on the alarm device.
- B. Incorrect VLAN assignment on the router.
- C. A missing route on the network routers.
- D. Incorrect speed/duplex setting on the alarm device.

**Answer:** D

#### NEW QUESTION 583

- (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 586

- (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 590

- (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 595

- (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 597

- (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 601

- (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 606**

- (Exam Topic 3)

Workstations are unable to access the Internet after a recent power outage. Configure the appropriate devices to ensure ALL workstations have Internet connectivity.

Instructions: All ports can be enabled (green) or disabled (red). When you have completed the simulation please select the Done button.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

All ports should be enabled.

**NEW QUESTION 609**

- (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 610**

- (Exam Topic 3)

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

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

**Answer:** A

**NEW QUESTION 614**

- (Exam Topic 3)

Jeff, a network technician, is installing a wireless router. Which of the following should Jeff consider to get the BEST signal strength?

- A. WAP placement
- B. PoE devices
- C. MAC filtering
- D. Encryption type

**Answer:** A

**NEW QUESTION 618**

- (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 621**

- (Exam Topic 3)

A network technician is installing a simple SOHO router with wireless functionality. Which of the following wireless encryption standards would be BEST suited for the HIGHEST level of security?

- A. WPA2
- B. WPA
- C. WEP64
- D. WEP128

**Answer:** A

**NEW QUESTION 622**

- (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 627**

- (Exam Topic 3)

Which of the following devices are MOST often responsible for 1q tagging? (Select TWO).

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

**Answer:** AB

**NEW QUESTION 629**

- (Exam Topic 3)

Which of the following layers of the OSI model is between the Data Link and Transport layers?

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

**Answer:** C

**NEW QUESTION 633**

- (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 638**

- (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 640**

- (Exam Topic 3)

Which of the following methods limits access to a network based on characteristics of the network card?

- A. IP filtering
- B. MAC filtering
- C. Port filtering
- D. Encryption

**Answer:** B

**NEW QUESTION 643**

- (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 646**

- (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 651**

- (Exam Topic 3)

A user is unable to connect to a server in another building. A technician is troubleshooting the issue and determines the following:

- 1) Client PC 1 has an IP address of 192.168.10.25/25
- 2) PC 1 can successfully ping its gateway of 192.168.10.1/25 which is an interface of router A
- 3) Server A is named 'BLDGBFILESVR01' and has an IP address of 192.168.10.145/25
- 4) PC 2 with an IP address of 192.168.10.200/25 can successfully ping server A

However, when PC 1 pings server A, it receives a destination host unreachable response. Which of the following is the MOST likely cause?

- A. Link from router A to PC 1 are on different subnets
- B. Link from router A to server A is down
- C. Link from PC 1 to router A has duplex issues
- D. Link from server A to PC 2 is down

**Answer:** A

**NEW QUESTION 656**

- (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 659**

- (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 664**

- (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 665**

- (Exam Topic 3)

A user is getting very weak signals while trying to connect to the wireless. Which of the following should the user do to help with signal strength?

- A. Call the wireless provider and ask for a T3 circuit.
- B. Move the wireless router to a better location where line of sight is obtained.
- C. Reinstall the operating system to the PC to ensure the newest patches are installed.
- D. Install a hub to ensure there is a clear path for the cables to run.

**Answer:** B

**NEW QUESTION 670**

- (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 672**

- (Exam Topic 3)

A network technician is troubleshooting intermittent issues with VoIP call quality. A throughput tester can help assess the functionality of which of the following?

- A. LLDP
- B. VLAN tagging
- C. QoS
- D. SIP trunking

**Answer:** C

**NEW QUESTION 675**

- (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 680**

- (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:**

ACable 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 682**

- (Exam Topic 3)

Which of the following devices can be used to offload outbound web server SSL encryption overhead?

- A. NIPS
- B. Proxy server
- C. Content filter
- D. VPN connectator

**Answer:** B

**NEW QUESTION 686**

- (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 690**

- (Exam Topic 3)

A user snapped the retention tab off of a network cable. Which of the following tools would Jeff, a technician, use to replace the RJ-45 connector?

- A. Wire tester
- B. Punch down
- C. Crimper
- D. Multimeter

**Answer:** C

**NEW QUESTION 693**

- (Exam Topic 3)

An 801.11g wireless access point was configured as follows:

- AP encryption forced to WPA2-AES mode only
- MAC address filtering enabled with the following MAC address in the allow list: 00-ab-29-da-c3-40 Which is true about the above configuration?

- A. Any 802.11b/g compatible client can connect to the wireless network if they support TKIP, the MAC address is 00-ab-29-da-c3-40, and the encryption key is known by the client.
- B. An 802.11a compatible client can connect to the wireless network only if its MAC address is 00- ab-29-da-c3-40 and the encryption key is known by the client.
- C. An 802.11n compatible client can connect to the wireless network only if its MAC address is 00- ab-29-da-c3-40 and the encryption key is known by the client.
- D. Any 802.11g compatible client can connect to the wireless network if the encryption key is known by the client.

**Answer:** C

**NEW QUESTION 695**

- (Exam Topic 3)

A network technician needs to install an additional access point to the company's wireless network. The network has two 802.11b access points. Which of the following channels should be used to allow the access point's coverage areas to overlap?

- A. 1, 6, 11
- B. 2, 5, 10
- C. 3, 13, 23
- D. 4, 8, 16

**Answer:** A

**NEW QUESTION 700**

- (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 704**

- (Exam Topic 3)

Kim, a technician, is installing a switch that does not feature auto-negotiation. Which of the following characteristics would need to be manually configured? (Select TWO).

- A. MAC addressing
- B. IP addressing
- C. Port speed
- D. IPv6 addressing
- E. Duplex

**Answer:** CE

**NEW QUESTION 705**

- (Exam Topic 3)

Lisa, a consultant, is inspecting an office that reports frequent wireless issues. Upon scanning the network broadcasting in the vicinity of the office, seven SSIDs are found. The company's Wi-Fi network and three others all share channel six. Which of the following is MOST likely causing the issue?

- A. Frequency interference
- B. Low signal strength
- C. Standard mismatch
- D. Incorrect channel

**Answer:** A

**NEW QUESTION 709**

- (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 711**

- (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 713**

- (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 715**

- (Exam Topic 3)

A user reports a network failure on a computer. The technician determines that the computer and NIC are operating properly. Which of the following tools can the technician use to trace the network cabling back to the punch down block?

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

**Answer:** D

**NEW QUESTION 718**

- (Exam Topic 3)

Jeff, a customer, has a wireless network and has reported that the network traffic from the wireless access points seems high compared to the limited number of wireless devices used. Jeff believes that other non-employees are using the wireless network to access the Internet. Which of the following could be used to limit the access to the wireless network? (Select TWO).

- A. WPA encryption
- B. Changing wireless channels
- C. MAC filtering
- D. Changing wireless speed standards
- E. SSID disable

**Answer:** AC

#### NEW QUESTION 719

- (Exam Topic 3)

Which of the following protocols is used for remote management of devices?

- A. SNMP
- B. TFTP
- C. Syslog
- D. SMTP

**Answer:** A

#### NEW QUESTION 723

- (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 728

- (Exam Topic 3)

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

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

**Answer:** C

#### NEW QUESTION 730

- (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 732

- (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 736

- (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 737**

- (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 741**

- (Exam Topic 3)

Jeff, a user, is having a problem with a POTS line. Which of the following tools would Jeff use to make sure the phone lines have a dial tone?

- A. Loopback plugs
- B. Butt set
- C. Cable certifier
- D. Toner probe

**Answer:** B

**NEW QUESTION 743**

- (Exam Topic 3)

A mobile user is no longer able to access network resources. Jeff, the network technician, is unable to ping the user's workstation. Which of the following commands would MOST likely be used on that workstation to verify its current network settings?

- A. net share
- B. hostname
- C. ipconfig
- D. tracert

**Answer:** C

**NEW QUESTION 745**

- (Exam Topic 3)

Which of the following separates broadcast domains?

- A. Port mirroring
- B. Router
- C. Convergence
- D. Switch

**Answer:** B

**NEW QUESTION 746**

- (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. tracert

**Answer:** D

**NEW QUESTION 750**

- (Exam Topic 3)

Kim, a user, cannot access the network using wireless. Which of the following is MOST likely the cause?

- A. TXRX is reversed
- B. Faulty crossover cable
- C. Incorrect WEP key
- D. A short in the cable pairs

**Answer:** C

**NEW QUESTION 752**

- (Exam Topic 3)

Keeping an authoritative and timely record of network devices and their settings is a key activity of which of the following?

- A. Project management
- B. Quality of service
- C. Configuration management
- D. Bandwidth shaping

**Answer: C**

#### **NEW QUESTION 756**

- (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 758**

- (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 759**

- (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 764**

- (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 765**

- (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 768**

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