

CompTIA

Exam Questions JK0-023

CompTIA Network+ certification



NEW QUESTION 1

- (Exam Topic 1)

A network administrator notices that load balancing is not working properly on the web cluster as previously configured. In speaking with management, a change to the IP addressing scheme was made yesterday which possibly affected one member of the cluster. Due to the timing of the events, the administrator theorizes that this change caused the problem. Which of the following should the administrator do NEXT?

- A. Escalate to the management team
- B. Change the IP address back to its previous state
- C. Test the theory by analyzing logs
- D. Create a plan of action to present to management

Answer: C

NEW QUESTION 2

- (Exam Topic 1)

Which of the following operates at OSI layer 2 to forward traffic based on the MAC address?

- A. Switch
- B. Proxy Server
- C. Router
- D. VPN Concentrator

Answer: A

NEW QUESTION 3

- (Exam Topic 1)

Which of the following is used to prevent Layer 2 switching loops within a local area network?

- A. STP
- B. MTU
- C. EGP
- D. IGP

Answer: A

NEW QUESTION 4

- (Exam Topic 1)

The APIPA address 169.254.10.123 falls into which of the following class of addresses?

- A. A
- B. B
- C. C
- D. D

Answer: B

NEW QUESTION 5

- (Exam Topic 1)

An administrator has added QoS settings to the LAN switches prioritizing RTP. Which of the following systems is the Administrator MOST concerned with in this scenario?

- A. Phone communications
- B. Web site downloads
- C. Streaming video clients
- D. Client bittorrent abilities

Answer: A

NEW QUESTION 6

- (Exam Topic 1)

Which of the following protocols would Kurt, a technician, use to synchronize local date and time of a client workstation to that of a server?

- A. RTP
- B. NTP
- C. TFTP
- D. ARP

Answer: B

NEW QUESTION 7

- (Exam Topic 1)

Lisa, an administrator, attempts to open a web page and sees the following error: 'Error 404: Page not found'. She then uses the ping command and finds that the default gateway cannot be pinged. At which of the following layers does the problem MOST likely reside?

- A. Layer 1

- B. Layer 4
- C. Layer 5
- D. Layer 7

Answer: A

NEW QUESTION 8

- (Exam Topic 1)

The protocols that use a three way handshake to transfer information can be found within which layer of the OSI model?

- A. Layer 2
- B. Layer 3
- C. Layer 4
- D. Layer 5

Answer: C

NEW QUESTION 9

- (Exam Topic 1)

Multiple networked devices running on the same physical hardware that provide central access to applications and files, where each device runs as a piece of software are known as:

- A. Virtual desktops.
- B. Switches.
- C. PBXs.
- D. Virtual servers.

Answer: D

NEW QUESTION 10

- (Exam Topic 1)

Which of the following would be used to run an instance of a Layer 2 device within an application?

- A. Virtual switch
- B. Virtual router
- C. Virtual PBX
- D. NaaS

Answer: A

NEW QUESTION 10

- (Exam Topic 1)

Which of the following are valid hosts for the Private IP Address range 172.16.0.x /23? (Select TWO).

- A. 172.16.0.255
- B. 172.16.0.0
- C. 172.16.1.1
- D. 172.16.8.0
- E. 172.16.256.255

Answer: AC

NEW QUESTION 11

- (Exam Topic 1)

In which of the following layers of the OSI model does the TCP protocol operate?

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

Answer: D

NEW QUESTION 13

- (Exam Topic 1)

Which of the following is used to embed the MAC address of an Ethernet interface in a corresponding IPv6 address?

- A. Subnet
- B. IANA prefix
- C. EUI-64
- D. Site-local

Answer: C

NEW QUESTION 17

- (Exam Topic 1)

Standards such as JPEG and ASCII operate at which of the following OSI model layers?

- A. Presentation
- B. Data link
- C. Session
- D. Application

Answer: A

NEW QUESTION 20

- (Exam Topic 1)

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 22

- (Exam Topic 1)

A network technician is troubleshooting a user's connectivity problem, and has determined a probable cause. The technician is at which step in the troubleshooting methodology?

- A. Verify full system functionality
- B. Identify the problem
- C. Establish a theory
- D. Implement the solution

Answer: C

NEW QUESTION 24

- (Exam Topic 1)

Which of the following virtual components maintains a MAC-to-port forwarding table?

- A. Virtual PBX
- B. Virtual desktop
- C. Virtual switch
- D. Virtual server

Answer: C

NEW QUESTION 28

- (Exam Topic 1)

Frames are the Protocol Data Unit for which of the following layers of the OSI model?

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

Answer: B

NEW QUESTION 29

- (Exam Topic 1)

Which of the following is the MAXIMUM hop count for RIP before the network is considered converged?

- A. 1
- B. 5
- C. 10
- D. 15

Answer: D

NEW QUESTION 34

- (Exam Topic 1)

A technician has resolved a ticket to fix a user's printer and has verified that the user is able to print with no issues. Which of the following action steps should the technician perform FIRST?

- A. Document findings and outcomes
- B. Establish a theory of probably cause
- C. Upgrade the printer drivers
- D. Close out the service ticket

Answer: A

NEW QUESTION 35

- (Exam Topic 1)

Which of the following protocols is Kim, a user, utilizing if no handshake or data reliability are required?

- A. TCP
- B. FTP
- C. TFTP
- D. UDP

Answer: D

NEW QUESTION 40

- (Exam Topic 1)

The BEST way to determine the next hop of a packet is to check the:

- A. link state
- B. routing table
- C. routing metrics
- D. convergence

Answer: B

NEW QUESTION 45

- (Exam Topic 1)

Which of the following BEST describes a switch port?

- A. Broadcast domain
- B. Distance vector
- C. Link state
- D. Collision domain

Answer: D

NEW QUESTION 47

- (Exam Topic 1)

Which of the following protocols uses port 3389 by default?

- A. RDP
- B. TFTP
- C. IMAP
- D. DNS

Answer: A

NEW QUESTION 52

- (Exam Topic 1)

Zach, a network administrator, wants to separate the network into broadcast domains. Which of the following can he use? (Select TWO).

- A. WAPs
- B. Routers
- C. Patch panels
- D. Hubs
- E. Bridges
- F. VLANs

Answer: BF

NEW QUESTION 55

- (Exam Topic 1)

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 56

- (Exam Topic 1)

Which of the following layers of the OSI model is responsible for stripping the TCP port information before sending the packet up to the next layer?

- A. 2

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

Answer: C

NEW QUESTION 61

- (Exam Topic 1)

Which of the following is the MOST appropriate to use when routing Internet traffic through multiple ISP connections?

- A. BGP
- B. SNAT
- C. RIP
- D. GPG

Answer: A

NEW QUESTION 64

- (Exam Topic 1)

A company is about to install a second network connection with a new ISP. Which of the following routing protocols is the BEST choice?

- A. IS-IS
- B. BGP
- C. OSPF
- D. RIP

Answer: B

NEW QUESTION 68

- (Exam Topic 1)

Which of the following network devices builds a table of ports to MAC addresses to forward packets only to necessary ports?

- A. Switch
- B. Hub
- C. Router
- D. Repeater

Answer: A

NEW QUESTION 70

- (Exam Topic 1)

Which of the following protocols would the network administrator use to protect login credentials when accessing a router terminal session?

- A. SCP
- B. SNMPv3
- C. SSL
- D. SSH

Answer: D

NEW QUESTION 74

- (Exam Topic 1)

Which of the following DNS record types will be used for mail transfer if the MX record is not found?

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

Answer: B

NEW QUESTION 76

- (Exam Topic 1)

Which of the following OSI layers performs error detection using a Frame Check Sequence?

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

Answer: D

NEW QUESTION 77

- (Exam Topic 1)

Which of the following would Kim, a technician, use in voice over IP communications?

- A. SNTP
- B. SCP
- C. SMTP
- D. SIP

Answer: D

NEW QUESTION 81

- (Exam Topic 1)

A layer 3 switch can move packets between subnets based on which of the following criteria?

- A. 802.1q tag
- B. Port
- C. Application
- D. IP address

Answer: D

NEW QUESTION 86

- (Exam Topic 1)

Which of the following protocols does DNS utilize on port 53?

- A. TCP
- B. FTP
- C. RTP
- D. ICMP

Answer: A

NEW QUESTION 89

- (Exam Topic 1)

Which of the following exist at layer three of the OSI model? (Select TWO).

- A. NIC
- B. Switch
- C. Frame
- D. Packet
- E. Router
- F. Cable

Answer: DE

NEW QUESTION 94

- (Exam Topic 1)

Which of the following uses port 23 by default?

- A. TELNET
- B. IMAP
- C. FTP
- D. SNMP

Answer: A

NEW QUESTION 98

- (Exam Topic 1)

A technician has spent most of the day replacing a server running DHCP. Some of the users have begun to call the help desk stating that Internet connection stopped working even after rebooting. Upon investigation, the users' PCs with issues all have IP addresses that start with 169.254.x.x. The technician completes the replacement and powers on the new DHCP server. Which of the following is the BEST way to provide the PCs with issues a new IP address?

- A. Statically assign a legitimate IP address, and then set the PCs' NICs to DHCP
- B. Inform each user to replace 169.254 with 192.168
- C. Wait five minutes until the PC resends a DHCP request
- D. Run netstat on each PC and then reboot into safe mode

Answer: C

NEW QUESTION 99

- (Exam Topic 1)

Which of the following should be used when throughput to the destination network is a priority?

- A. MTU
- B. Hop count
- C. Reliability of the path
- D. Bandwidth

Answer: D

NEW QUESTION 100

- (Exam Topic 1)

A user reports that they are unable to connect to the network. Upon further investigation, a technician notices that the user has an IP address/subnet mask combination of 192.168.204.255/24. The default gateway for the network is 192.168.204.254. Which of the following could the user's IP address be changed to so that they could connect to the network?

- A. 192.168.204.0/27
- B. 192.168.204.1/27
- C. 192.168.204.112/24
- D. 192.168.204.254/24

Answer: C

NEW QUESTION 103

- (Exam Topic 1)

How many collision domains and broadcast domains are present on a 24-port switch with no VLAN assignments?

- A. 1 collision domain, 1 broadcast domain
- B. 1 collision domain, 24 broadcast domains
- C. 24 collision domains, 1 broadcast domain
- D. 24 collision domains, 24 broadcast domains

Answer: C

NEW QUESTION 107

- (Exam Topic 1)

Which of the following protocols are used to view and send mail from a local host off of a remote server? (Select TWO).

- A. TFTP
- B. SNMP
- C. POP3
- D. IMAP4
- E. SFTP

Answer: CD

NEW QUESTION 112

- (Exam Topic 1)

Logically separating the ports on a switch without physically separating them can be done using which of the following?

- A. Routing tables
- B. Hub logic
- C. Spanning tree protocol
- D. VLANs

Answer: D

NEW QUESTION 117

- (Exam Topic 1)

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 121

- (Exam Topic 1)

Which TCP/IP model layer does the OSI model layer named 'session' respond to?

- A. Application
- B. Presentation
- C. Internet
- D. Transport

Answer: A

NEW QUESTION 125

- (Exam Topic 1)

Multiprotocol Label Switching (MPLS) operates at which of the following layers of the OSI model? (Select TWO).

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

E. Layer 5

Answer: BC

NEW QUESTION 129

- (Exam Topic 1)

Which of the following DNS records would be queried to locate a company's mail server?

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

Answer: B

NEW QUESTION 133

- (Exam Topic 1)

At which layer of the OSI and TCP/IP model would HTTP and FTP be found?

- A. Application
- B. Network
- C. Session
- D. Data Link

Answer: A

NEW QUESTION 134

- (Exam Topic 1)

Jeff, a user, can no longer access the accounting file share, but others are still able to access the share. Which of the following would be the FIRST step in troubleshooting the issue?

- A. Notify senior management of the issue.
- B. Develop a probable cause theory.
- C. Ask Jeff if anything has changed on the system.
- D. Escalate the issue to the vendor.

Answer: C

NEW QUESTION 138

- (Exam Topic 1)

A network consultant arrives at a customer's site to troubleshoot their email server. The server is running a Linux operating system, but the consultant is only familiar with Windows operating systems. Which of the following troubleshooting steps should the consultant take?

- A. Document findings
- B. Identify the problem
- C. Escalate the problem
- D. Establish a plan of action

Answer: C

NEW QUESTION 143

- (Exam Topic 1)

The MAC address of a network device is used to communicate at which of the following OSI layers?

- A. Layer 1
- B. Layer 2
- C. Layer 4
- D. Layer 5

Answer: B

NEW QUESTION 147

- (Exam Topic 1)

Lisa, a network technician, is attempting to map a FQDN to an internal server at the address of 10.0.0.15 without NAT/PAT. Which of the following is the reason this will ultimately not work?

- A. This is a private address which cannot be seen by external users.
- B. The address does not have the appropriate subnet mask assigned.
- C. This is a public address which can only be seen by internal users.
- D. This is a private address which can only be seen by external users.

Answer: A

NEW QUESTION 150

- (Exam Topic 1)

Which of the following is the minimum subnet mask to allow 172.16.1.5 and 172.16.4.3 to be on the same subnet?

- A. /19
- B. /21
- C. /22
- D. /24

Answer: B

NEW QUESTION 151

- (Exam Topic 1)

Data arranged into packets would be on which of the following layers of the OSI model?

- A. Datagram
- B. Transport
- C. Presentation
- D. Network

Answer: D

NEW QUESTION 153

- (Exam Topic 1)

Which of the following is the broadcast address for a network defined as 192.168.0.0/24?

- A. 192.168.0.255
- B. 192.168.0.1
- C. 192.168.0.0
- D. 192.168.0.253

Answer: A

NEW QUESTION 158

- (Exam Topic 1)

Which of the following is considered a routing metric?

- A. Hop count
- B. QoS
- C. Subnet size
- D. IP address

Answer: A

NEW QUESTION 161

- (Exam Topic 1)

Which of the following records allows for reverse DNS lookups?

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

Answer: C

NEW QUESTION 162

- (Exam Topic 1)

Which of the following services are affected by closing the default ports of 80 and 21 via ACL on a company router?

- A. FTP and basic Internet traffic
- B. HTTPS and IMAP traffic
- C. DNS and TELNET traffic
- D. VPN and RDP traffic

Answer: A

NEW QUESTION 167

- (Exam Topic 1)

At which of the following layers of the OSI model does ASCII work?

- A. Session
- B. Transport
- C. Presentation
- D. Application

Answer: C

NEW QUESTION 168

- (Exam Topic 1)

Which of the following DNS records would allow for a website to have more than one FQDN?

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

Answer: D

NEW QUESTION 172

- (Exam Topic 1)

STP prevents which of the following problems?

- A. Collision domains
- B. Switching loops
- C. Broadcast storms
- D. Routing loops

Answer: B

NEW QUESTION 175

- (Exam Topic 1)

Which of the following would Joe, a technician, use for a service that needs fast communication and is unaffected by packet loss?

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

Answer: A

NEW QUESTION 176

- (Exam Topic 1)

When a packet that is entering a switch port is encapsulated, which of the following is the switch performing?

- A. 802.1q
- B. Collision avoidance
- C. Port mirroring
- D. STP

Answer: A

NEW QUESTION 178

- (Exam Topic 1)

At which of the following layers does HTML operate?

- A. Layer 2
- B. Layer 3
- C. Layer 5
- D. Layer 7

Answer: D

NEW QUESTION 180

- (Exam Topic 1)

Which of the following layers of the OSI model maps to the Network Interface layer of the TCP stack? (Select TWO).

- A. Physical
- B. Session
- C. Data Link
- D. Network
- E. Transport

Answer: AC

NEW QUESTION 185

- (Exam Topic 1)

A user is having difficulty connecting a laptop to the company's network via a wireless connection. The user can connect to the network via a wired NIC. The technician thinks the user's wireless NIC has failed. Which of the following network troubleshooting methodology steps should the technician perform NEXT?

- A. Test the theory to determine the cause.
- B. Implement the solution or escalate as necessary.
- C. Establish a plan of action to resolve the problem.
- D. Re-establish new theory or escalate.

Answer: A

NEW QUESTION 189

- (Exam Topic 1)

Which of the following routing protocols utilizes the DUAL algorithm for determining best path?

- A. EIGRP
- B. RIPv2
- C. OSPF
- D. RIP

Answer: A

NEW QUESTION 190

- (Exam Topic 1)

A home user states during a basement remodel, one of the workers cut the network cable that goes from the modem to the WAP and nothing else has changed. According to the network troubleshooting methodology, which of the following is the NEXT step?

- A. Identify the problem
- B. Question the user
- C. Establish a plan of action
- D. Establish a theory of probable cause

Answer: C

NEW QUESTION 191

- (Exam Topic 1)

Which of the following ports are MOST commonly used to interactively configure a networking device? (Select TWO).

- A. 21
- B. 22
- C. 23
- D. 53
- E. 67

Answer: BC

NEW QUESTION 194

- (Exam Topic 1)

Which two layers of the OSI model make up the TCP/IP model Network Interface layer?

- A. Application and Transport
- B. Transport and Session
- C. Physical and Data Link
- D. Session and Presentation

Answer: C

NEW QUESTION 195

- (Exam Topic 1)

Which of the following ports would have to be allowed through a firewall for NTP to pass on its default port?

- A. 123
- B. 143
- C. 153
- D. 163

Answer: A

NEW QUESTION 198

- (Exam Topic 1)

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 199

- (Exam Topic 1)

A company would like their technicians to be able to connect to employee desktops remotely via RDP. Which of the following default port numbers need to be opened on the firewall to support this?

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

D. 8080

Answer: C

NEW QUESTION 201

- (Exam Topic 1)

Which of the following protocols is MOST commonly associated with VoIP?

- A. LDAP
- B. HTTPS
- C. SIP
- D. SCP

Answer: C

NEW QUESTION 202

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 206

- (Exam Topic 1)

Which of the following exterior routing protocols uses an algorithm to determine the quickest route to a destination?

- A. RIP
- B. OSPF
- C. BGP
- D. RIPv2

Answer: C

NEW QUESTION 207

- (Exam Topic 1)

Which of the following protocols resolves IP addresses to MAC addresses?

- A. DNS
- B. ARP
- C. RARP
- D. NTP

Answer: B

NEW QUESTION 212

- (Exam Topic 1)

A crossover cable is MOST commonly associated with which of the following layers of the OSI model?

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

Answer: D

NEW QUESTION 215

- (Exam Topic 1)

Which of the following is a reason to use dynamic DNS?

- A. The host IP address is not listed in the firewall.
- B. The host IP address is assigned by DHCP.
- C. Static routes cannot be used on the host network.
- D. A third-party certificate is being used.

Answer: B

NEW QUESTION 218

- (Exam Topic 1)

An organization is considering migrating a datacenter to a different operating system. Which of the following could the organization use to try out the new OS before making a wide-scale deployment?

- A. Virtual PBXs
- B. Virtual Switches
- C. Virtual Servers
- D. Virtual Desktops

Answer: C

NEW QUESTION 219

- (Exam Topic 1)

A technician finds that the network card is no longer functioning. At which of the following OSI layers is the problem occurring?

- A. Layer 1
- B. Layer 3
- C. Layer 5
- D. Layer 7

Answer: A

NEW QUESTION 223

- (Exam Topic 1)

A network technician has determined a managed network switch has failed. The technician knows how to install a new switch, but not how to properly configure it. Which of the following troubleshooting steps should the technician take NEXT?

- A. Escalate the problem
- B. Identify potential effects
- C. Test the theory to determine cause
- D. Establish a plan of action to resolve the problem

Answer: A

NEW QUESTION 225

- (Exam Topic 1)

Which of the following OSI layers BEST describes where an HTTP proxy operates?

- A. Transport
- B. Application
- C. Presentation
- D. Session

Answer: B

NEW QUESTION 229

- (Exam Topic 1)

Which of the following assists a network administrator in reverse engineering malware and viruses?

- A. Virtual switches
- B. Virtual machines
- C. VLANs
- D. IDS

Answer: B

NEW QUESTION 234

- (Exam Topic 2)

Which wireless standard works at a MAXIMUM data rate of up to 54Mbps?

- A. 802.11b
- B. 802.11g
- C. 802.11n
- D. 802.1q

Answer: B

NEW QUESTION 235

- (Exam Topic 2)

Which of the following wireless standards is the only one capable of operating in either of the 802.11 wireless spectrums?

- A. A
- B. B
- C. G
- D. N

Answer: D

NEW QUESTION 240

- (Exam Topic 2)

Which of the following allows 802.11n higher transfer speeds than the previous wireless standards?

- A. Dual frequency
- B. Enhanced encryption
- C. MIMO technology
- D. Backwards compatibility

Answer: C

NEW QUESTION 244

- (Exam Topic 2)

Which of the following fiber types is MOST often used indoors?

- A. Plenum
- B. Modal conditioning
- C. Multimode
- D. Singlemode

Answer: C

NEW QUESTION 246

- (Exam Topic 2)

Which of the following cables supports 10Gbps throughput and 100 meters as the maximum distance?

- A. T1 crossover
- B. Singlemode fiber
- C. CAT6a
- D. Coaxial

Answer: C

NEW QUESTION 247

- (Exam Topic 2)

Users notice a problem with their network connectivity when additional lights are turned on. Which of the following would be the cause for this problem?

- A. DDOS
- B. Cross talk
- C. Open short
- D. EMI

Answer: D

NEW QUESTION 249

- (Exam Topic 2)

Which of the following WAN technologies has the highest latency?

- A. POTS
- B. Cable
- C. Satellite
- D. DSL

Answer: C

NEW QUESTION 250

- (Exam Topic 2)

Which of the following spreads out each of the individual wires of a UTP cable onto their own metal connector?

- A. BNC connection
- B. 110 block
- C. Plenum
- D. LC connector

Answer: B

NEW QUESTION 253

- (Exam Topic 2)

Which of the following standards can operate at 40MHz channel spacing?

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

Answer: D

NEW QUESTION 258

- (Exam Topic 2)

Which of the following is the difference between 802.11b and 802.11g?

- A. Distance
- B. Frequency
- C. Speed
- D. Transmission power

Answer: C

NEW QUESTION 261

- (Exam Topic 2)

Which of the following 802.3 classifications has a MAXIMUM segment distance of 984 feet (300 meters)?

- A. 1000Base
- B. 100BaseFX
- C. 1000BaseSX
- D. 1000BaseT

Answer: C

NEW QUESTION 265

- (Exam Topic 2)

Which of the following technologies is used on cellular networks?

- A. Ethernet
- B. CDMA
- C. CSMA/CA
- D. POTS

Answer: B

NEW QUESTION 266

- (Exam Topic 2)

Zach, an administrator, needs to install a new 100 foot (30 meter) cable run from an IDF switch to the MDF, through a room that has a large number of motors.

Which of the following would be the BEST cable type to choose?

- A. CAT3
- B. STP
- C. Coaxial
- D. Fiber

Answer: D

NEW QUESTION 269

- (Exam Topic 2)

Which of the following types of technologies should be used to provide a MAXIMUM 10 GB speed to a multi-mode fiber network?

- A. 10GBaseER
- B. 10GBaseSR
- C. 10GBaseTX
- D. 10GBaseT

Answer: B

NEW QUESTION 274

- (Exam Topic 2)

Which of the following is rated for speeds over 800Mbps?

- A. Coaxial
- B. DB-9
- C. CAT6
- D. CAT5e

Answer: C

NEW QUESTION 277

- (Exam Topic 2)

Which of the following network topologies is MOST likely used in remote access VPN?

- A. Point to Point
- B. Bus
- C. Ring
- D. Mesh

Answer:

A

NEW QUESTION 280

- (Exam Topic 2)

Which of the following has a DB-9 connector?

- A. SC
- B. RS-232
- C. LC
- D. RJ-45

Answer: B

NEW QUESTION 285

- (Exam Topic 2)

A network administrator tests a multimode fiber cable from end-to-end on a new link that is down and notices that the dB loss is -.09. Which of the following is the MOST likely cause?

- A. TXRX reversed
- B. dB loss too high
- C. dB loss too low
- D. Bad connectors

Answer: A

NEW QUESTION 286

- (Exam Topic 2)

In the event of a fire in an office building, which of the following cable types should be installed to prevent toxic gas from burning PVC cable coatings?

- A. CAT6a
- B. Plenum
- C. Crossover
- D. STP

Answer: B

NEW QUESTION 287

- (Exam Topic 2)

Which of the following has the HIGHEST data rate speed?

- A. T1
- B. ADSL
- C. SDSL
- D. OC-3

Answer: D

NEW QUESTION 290

- (Exam Topic 2)

In which of the following would Sandy, a technician, find the LARGEST number of 110 block patch panels?

- A. MDF
- B. Caching engines
- C. Demarc
- D. IDF

Answer: A

NEW QUESTION 294

- (Exam Topic 2)

Which of the following is the MAXIMUM data transmission rate of 802.11a?

- A. 8Mbps
- B. 11Mbps
- C. 54Mbps
- D. 107Mbps

Answer: C

NEW QUESTION 297

- (Exam Topic 2)

After running a CAT6 cable from the maintenance office 80 floors above the network closet, users are reporting lack of connectivity. Which of the following is the MOST likely cause?

- A. Cable placement
- B. Crosstalk

- C. Bad wiring
- D. Cable length

Answer: D

NEW QUESTION 298

- (Exam Topic 2)

Which of the following would be used to connect a singlemode fiber cable to a CAT6 connection?

- A. Media converter
- B. T1-crossover
- C. Multimode cable
- D. Coaxial

Answer: A

NEW QUESTION 300

- (Exam Topic 2)

Kurt, a technician, notices a newly installed CAT5 cable is longer than the standard maximum length. Which of the following problems would this MOST likely cause?

- A. Split cable
- B. EMI
- C. DB loss
- D. Crosstalk

Answer: C

NEW QUESTION 302

- (Exam Topic 2)

Karen, a technician, is installing network cables for an office building. Some of the cables are not showing active on the switch even when moved to different ports. Which of the following is MOST likely the cause?

- A. Port speed mismatch
- B. Faulty F-connectors
- C. Bad wiring
- D. Bad switch

Answer: C

NEW QUESTION 307

- (Exam Topic 2)

Which of the following technologies can change channel widths?

- A. 802.11a
- B. 802.11b
- C. 802.11n
- D. Bluetooth

Answer: C

NEW QUESTION 310

- (Exam Topic 2)

T568B wiring scheme is typically found on which of the following components?

- A. Demarc extension
- B. 66 block
- C. Patch panel
- D. Vertical cross connect

Answer: C

NEW QUESTION 313

- (Exam Topic 2)

Which of the following could be installed to allow a home user with one desktop computer to economically have Internet access in every room in the house?

- A. Fiber optic
- B. CAT6
- C. Broadband over powerline
- D. CAT5

Answer: C

NEW QUESTION 314

- (Exam Topic 2)

Which of the following is the MAXIMUM rated speed for CAT5 cabling?

- A. 10Mbps
- B. 100Mbps
- C. 1000Mbps
- D. 10Gbps

Answer: B

NEW QUESTION 317

- (Exam Topic 2)

A large corporate office is looking to place smaller network closets around campus to handle switching for remote workstations. To which of the following is this referring?

- A. MDF
- B. VPN
- C. RDP
- D. IDF

Answer: D

NEW QUESTION 319

- (Exam Topic 2)

A patch cable terminated with one end as T568A and the other as T568B will create which of the following cable types?

- A. Crossover
- B. Serial
- C. Roll over
- D. Straight through

Answer: A

NEW QUESTION 322

- (Exam Topic 2)

Which of the following technologies is used to connect public networks using POTS lines?

- A. OC3
- B. OC12
- C. PSTN
- D. Cable

Answer: C

NEW QUESTION 326

- (Exam Topic 2)

Which of the following cable types allows for the LONGEST distance of a Gigabit Ethernet connection?

- A. Multimode fiber
- B. CAT6a
- C. Single mode fiber
- D. Coaxial

Answer: C

NEW QUESTION 327

- (Exam Topic 2)

The network technician needs to install fiber cabling to connect two buildings less than 984 feet (300 meters) apart. Which of the following fiber types should be installed?

- A. Singlemode
- B. Multimode
- C. Crossover
- D. F-Connector

Answer: B

NEW QUESTION 332

- (Exam Topic 2)

When examining a suspected faulty copper network cable, Kim, the administrator, notices that some of the pairs are untwisted too much. This is MOST likely causing which of the following?

- A. DB loss
- B. Dispersion
- C. Collisions
- D. Cross-talk

Answer: D

NEW QUESTION 336

- (Exam Topic 2)

Which of the following is true of a client/server topology?

- A. Virtual servers are used to stream data to other remote servers
- B. Servers are used to connect to centralized clients
- C. Remote clients connect to a centralized server
- D. Remote clients connect to each other via a virtual server

Answer: C

NEW QUESTION 339

- (Exam Topic 2)

Which of the following network topologies describes a network where each node is connected to every other node?

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

Answer: C

NEW QUESTION 343

- (Exam Topic 2)

Which of the following is MOST likely used with RG-6 media?

- A. MTRJ
- B. RJ-11
- C. RJ-45
- D. F-connector

Answer: D

NEW QUESTION 346

- (Exam Topic 2)

Which of the following would the telecommunications carrier use to segregate customer traffic over long fiber links?

- A. VLAN
- B. MPLS
- C. VPN
- D. PSTN

Answer: B

NEW QUESTION 351

- (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 352

- (Exam Topic 2)

The wireless network inside a large training room has been saturated with client requests. Most of the client requests are coming from smartphones and laptops. The network technician has been tasked with increasing the performance of the wireless access point. Which of the following would BEST accomplish this?

- A. Switch the channel
- B. Change frequencies
- C. Channel bonding
- D. Increase the signal

Answer: C

NEW QUESTION 353

- (Exam Topic 2)

CAT6 has how many twisted copper pairs?

- A. 2
- B. 4
- C. 6
- D. 8
- E. 16

Answer: B

NEW QUESTION 354

- (Exam Topic 2)

The unit responsible for the successful shaping and transmission of a digital signal is called:

- A. demarc.
- B. T1 hub.
- C. smart jack.
- D. CSU/DSU.

Answer: D

NEW QUESTION 357

- (Exam Topic 2)

Which of the following connector types would require a punch down tool to attach a network cable to it?

- A. F-connector
- B. ST
- C. 110 block
- D. RJ-45

Answer: C

NEW QUESTION 359

- (Exam Topic 2)

Which of the following is a common connector used on a coaxial cable?

- A. RJ-45
- B. DB-25
- C. BNC
- D. LC

Answer: C

NEW QUESTION 363

- (Exam Topic 2)

Which of the following connectors are MOST commonly used on a POTS line?

- A. RJ-45
- B. MTRJ
- C. DB-9
- D. RJ-11

Answer: D

NEW QUESTION 367

- (Exam Topic 2)

A user does not have network connectivity. While testing the cable the technician receives the below reading on the cable tester:

1-----1
2-----2
3-----3
4-----4
5-----5
6-----6
7-----7
8-----8

Which of the following should the technician do NEXT?

- A. Cable is a crossover, continue troubleshooting
- B. Pin 3 is not used for data, continue troubleshooting
- C. Pin 3 is not used for data, replace the NIC
- D. Redo the cable's connectors

Answer: D

NEW QUESTION 370

- (Exam Topic 2)

Which of the following WAN technologies utilizes an optical SONET carrier and has a maximum bandwidth of 155.54Mbps?

- A. DS3
- B. E3
- C. OC3
- D. T3

Answer: C

NEW QUESTION 373

- (Exam Topic 2)

Which of the following WAN technologies has synchronous up/down speeds?

- A. T1
- B. ADSL
- C. Satellite
- D. Cable broadband

Answer: A

NEW QUESTION 375

- (Exam Topic 2)

Ann, a technician, is installing network cables for an office building. Some of the cables are not showing active on the switch even when moved to different ports. Which of the following is MOST likely the cause?

- A. Port speed mismatch
- B. Faulty F-connectors
- C. Bad wiring
- D. Bad switch

Answer: C

NEW QUESTION 377

- (Exam Topic 2)

Horizontal cable is terminated on which device in the wiring closet?

- A. Demarc
- B. Switch
- C. Punch down tool
- D. Patch panel

Answer: D

NEW QUESTION 381

- (Exam Topic 2)

A user's network connection is slow. After testing the cabling, the cable tester shows that only pins 1, 2, 3 and 6 are being used. After accurately terminating both ends, the tester displays the same results. Which of the following is the MOST likely cause?

- A. DB loss on the cable
- B. Interference
- C. Split cable
- D. Distance limitations

Answer: C

NEW QUESTION 385

- (Exam Topic 2)

Which of the following wireless standards can operate on the same frequency but are not compatible?

- A. 802.11a / 802.11b
- B. 802.11a / 802.11n
- C. 802.11b / 802.11g
- D. 802.11g / 802.11n

Answer: B

NEW QUESTION 388

- (Exam Topic 2)

Which of the following cable types is required to run through an air duct?

- A. UTP
- B. Fiber
- C. PVC
- D. Plenum

Answer: D

NEW QUESTION 393

- (Exam Topic 2)

Sandy, an administrator, needs to install a wireless network that will allow legacy devices to connect to the network and also offer both 5GHz and 2.4GHz frequencies. Which of the following would BEST describe the type of WAP needed?

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

Answer: D

NEW QUESTION 398

- (Exam Topic 2)

Which of the following connectors would Kim, a technician, use only for RG-6 cables?

- A. F-connector
- B. MTRJ
- C. RJ-45
- D. RS-232

Answer: A

NEW QUESTION 403

- (Exam Topic 2)

Which of the following wireless standards operates on the same frequency as 802.11a?

- A. Compatible with 802.11b wireless networks
- B. Compatible with 802.11g wireless networks
- C. Compatible with 802.11i wireless networks
- D. Compatible with 802.11n wireless networks

Answer: D

NEW QUESTION 408

- (Exam Topic 2)

CAT6 Ethernet cabling has a rated maximum transmission capability of:

- A. 10Mbps
- B. 100Mbps
- C. 20,000Mbps
- D. 10,000Mbps

Answer: D

NEW QUESTION 411

- (Exam Topic 2)

A technician is tasked with replacing some older RS-232 serial printers. Which of the following ports would the technician most likely find on these printers?

- A. BNC
- B. DB-9
- C. LC
- D. RJ-11

Answer: B

NEW QUESTION 412

- (Exam Topic 2)

A technician has been dispatched to investigate connectivity problems of a recently renovated office. The technician has found that the cubicles were wired so that the network cables were run inside the conduit with the electrical cabling. Which of the following would MOST likely resolve the connectivity issue?

- A. Power-cycle the computers and switches to re-establish the network connection.
- B. Re-run the network cabling through the ceiling alongside the lights to prevent interference.
- C. Test the wiring in the network jacks for faults using a cable verifier.
- D. Re-run the network cabling so that they are 12 inches or more away from the electrical lines.

Answer: D

NEW QUESTION 413

- (Exam Topic 2)

Which of the following BEST describes the point at which an ISP's responsibility for an Internet connection ends?

- A. Router
- B. MDF
- C. IDF
- D. Demarc

Answer: D

NEW QUESTION 417

- (Exam Topic 2)

Which of the following connectors is used for coaxial copper cable?

- A. BNC
- B. DB-9

- C. RJ-11
- D. ST

Answer: A

NEW QUESTION 420

- (Exam Topic 2)

Which of the following connector types will MOST likely be located on a serial cable?

- A. DB-9
- B. LC
- C. ST
- D. BNC

Answer: A

NEW QUESTION 425

- (Exam Topic 2)

Which of the following WAN technologies has a MAXIMUM speed of 155.52Mbps?

- A. OC-3
- B. T3
- C. OC-12
- D. E1

Answer: A

NEW QUESTION 427

- (Exam Topic 3)

Which of the following could Kim, a network technician, use to inspect connection setup, request, and response headers for users connecting to a web server?

- A. nbtstat command
- B. dig command
- C. ipconfig command
- D. Protocol analyzer

Answer: D

NEW QUESTION 429

- (Exam Topic 3)

When troubleshooting a connectivity issue, which of the following commands will give Joe, the technician, a list of the host names connected to the network?

- A. ping
- B. nbstat
- C. arp
- D. msconfig

Answer: B

NEW QUESTION 432

- (Exam Topic 3)

Which of the following is used to explain guidelines for users while using network resources?

- A. Network cut sheet
- B. Baselines
- C. Acceptable use policy
- D. Regulations

Answer: C

NEW QUESTION 433

- (Exam Topic 3)

Which of the following network devices MOST likely functions as a network repeater or a bridge?

- A. VPN concentrator
- B. IDS
- C. Access point
- D. Firewall

Answer: C

NEW QUESTION 437

- (Exam Topic 3)

Which of the following devices should Jeff, an administrator, connect to a protocol analyzer in order to collect all of the traffic on a LAN segment?

- A. Hub
- B. VLAN
- C. Router
- D. Server

Answer: A

NEW QUESTION 442

- (Exam Topic 3)

Which of the following is used to restrict access according to user policies?

- A. Content filter
- B. DHCP server
- C. DNS server
- D. VPN concentrator

Answer: A

NEW QUESTION 443

- (Exam Topic 3)

Which of the following is used to limit the amount of bandwidth used on a link for different applications to improve overall performance?

- A. QoS
- B. Fault tolerance
- C. Load balancing
- D. Traffic shaping

Answer: D

NEW QUESTION 446

- (Exam Topic 3)

A content filter is MOST likely installed on which of the following servers?

- A. Proxy server
- B. TACACS+ server
- C. DNS server
- D. DHCP server

Answer: A

NEW QUESTION 450

- (Exam Topic 3)

A network technician has been asked to look into a report from the IDS to determine why traffic is being sent from an internal FTP server to an external website.

Which of the following tools can be used to inspect this traffic?

- A. Router firewall
- B. Ping and traceroute
- C. Throughput tester
- D. Protocol analyzer

Answer: D

NEW QUESTION 453

- (Exam Topic 3)

A technician has traced a POTS line to a 110 block. Which of the following devices would the technician MOST likely use to see if the line carries a dial tone?

- A. Toner Probe
- B. Punch Down Tool
- C. Protocol Analyzer
- D. Butt Set

Answer: D

NEW QUESTION 454

- (Exam Topic 3)

Which of the following is the control when observing network bandwidth patterns over time?

- A. Network log
- B. Baseline
- C. Flow data
- D. Interface statistics

Answer: B

NEW QUESTION 458

- (Exam Topic 3)

Which of the following network performance optimization methods allows for frequently accessed sites to be housed locally, thereby reducing bandwidth requirements?

- A. Load balancing
- B. Traffic policing
- C. Caching engines
- D. Traffic shaping

Answer: C

NEW QUESTION 462

- (Exam Topic 3)

A newly hired technician is sent to an alternate site to complete the build out of large scale LAN. Which of the following tools should the technician have on hand to install the bulk CAT6 cable? (Select TWO).

- A. Loopback plug
- B. Multimeter
- C. OTDR
- D. Crimper
- E. Cable tester
- F. TDR

Answer: DE

NEW QUESTION 463

- (Exam Topic 3)

Which of the following performance benefits would multiple domain controllers BEST provide?

- A. Fault tolerance
- B. Caching engine
- C. Proxy server
- D. Quality of service

Answer: A

NEW QUESTION 467

- (Exam Topic 3)

Which of the following would MOST likely be used by a network administrator to test DNS resolution?

- A. dig
- B. ipconfig
- C. netstat
- D. nbtstat

Answer: A

NEW QUESTION 472

- (Exam Topic 3)

Which of the following network protocols would be used to transmit traps across a network to a log server?

- A. SMTP
- B. PPPoE
- C. POP3
- D. SNMP

Answer: D

NEW QUESTION 476

- (Exam Topic 3)

Which of the following commands displays the routing table on a server or workstation?

- A. nbtstat
- B. route
- C. traceroute
- D. nmap

Answer: B

NEW QUESTION 481

- (Exam Topic 3)

Lisa, a technician, needs to customize various cable lengths and verify that the cables are working correctly. Which of the following tools would be needed to accomplish this? (Select TWO).

- A. Cable certifier
- B. Multimeter
- C. Crimper

- D. Punch down tool
- E. Loopback plug

Answer: AC

NEW QUESTION 484

- (Exam Topic 3)

A company is experiencing a denial of service attack and wants to identify the source IP address of the attacker in real time. Which method is the BEST way to accomplish this?

- A. Network sniffer
- B. Syslog
- C. SNMPv3
- D. System logs

Answer: A

NEW QUESTION 488

- (Exam Topic 3)

Users are reporting that some Internet websites are not accessible anymore. Which of the following will allow the network administrator to quickly isolate the remote router that is causing the network communication issue, so that the problem can be reported to the appropriate responsible party?

- A. Ping
- B. Protocol analyzer
- C. Tracert
- D. Dig

Answer: C

NEW QUESTION 489

- (Exam Topic 3)

Lisa, an administrator, wants to limit the wireless guest network traffic to 100Kbps so that utilization issues do not occur on the company's T1 Internet access network. Which of the following optimizations should Lisa implement?

- A. Load balancing
- B. Caching engine
- C. Traffic shaping
- D. Quality of service

Answer: C

NEW QUESTION 493

- (Exam Topic 3)

The selection of the correct punch down tool to use depends on which of the following?

- A. Connector type
- B. Demarcation point location
- C. Block type
- D. Switch location

Answer: C

NEW QUESTION 497

- (Exam Topic 3)

An administrator is able to list the interfaces on a switch after providing the community string "public". Which of the protocols is the administrator MOST likely using?

- A. Telnet
- B. RADIUS
- C. SSH
- D. SNMP

Answer: D

NEW QUESTION 499

- (Exam Topic 3)

Karen, a network technician, is troubleshooting in a wiring closet in 2011. The cabling to all the equipment does not match the documentation from 2007. Which of the following configuration management methods has been overlooked?

- A. Change management
- B. System logs
- C. Asset management
- D. Baselining

Answer: A

NEW QUESTION 503

- (Exam Topic 3)

A network administrator suspects that recent traffic problems could be caused by a high CPU load on company routers. Which of the following would BEST be used to monitor CPU cycles on the routers?

- A. TACACS+
- B. SNMP
- C. Syslog
- D. DOCSIS

Answer: B

NEW QUESTION 507

- (Exam Topic 3)

A user has network connectivity per the link lights on the NIC, but cannot access any network resources or the Internet. Which of the following commands should the technician run FIRST?

- A. arp
- B. ipconfig
- C. tracert
- D. route

Answer: B

NEW QUESTION 510

- (Exam Topic 3)

An administrator is trying to retrieve management information from the network devices on their LAN. Which of the following monitoring resources provides the ability to collect this information encrypted over the network?

- A. SNMPv3
- B. VTP
- C. CDP
- D. IPSec

Answer: A

NEW QUESTION 514

- (Exam Topic 3)

A network administrator wants to see what ports are open on a server. Which of the following commands will show open ports?

- A. netstat
- B. tracert
- C. nbtstat
- D. nslookup

Answer: A

NEW QUESTION 518

- (Exam Topic 3)

Which of the following devices will allow Lisa, a user, to see a cached copy of websites?

- A. Content switch
- B. DNS server
- C. Proxy server
- D. Load balancer

Answer: C

NEW QUESTION 521

- (Exam Topic 3)

After installing new cabling, Karen, a technician, notices that several computers are connecting to network resources very slowly. Which of the following tools would BEST help in determining if the new cabling is the cause of the problem?

- A. Multimeter
- B. Cable certifier
- C. Cable tester
- D. Toner probe

Answer: B

NEW QUESTION 523

- (Exam Topic 3)

Kim, a network engineer, needs to troubleshoot a remote router within the WAN. Which of the following user authentications would be the BEST to implement?

- A. MS-CHAP
- B. Kerberos
- C. TACACS+

D. PKI

Answer: C

NEW QUESTION 525

- (Exam Topic 3)

Users have reported issues accessing an Internet website. The network technician wants to verify network layer connectivity. Which of the following tools can provide the verification?

- A. ping
- B. netstat
- C. route
- D. arp

Answer: A

NEW QUESTION 528

- (Exam Topic 3)

Which of the following tools would Kurt, an administrator, use to identify opens and shorts?

- A. Ohmmeter
- B. Protocol analyzer
- C. Cable tester
- D. Multimeter

Answer: C

NEW QUESTION 529

- (Exam Topic 3)

Which of the following handles HTTP requests on behalf of the client?

- A. Bandwidth shaper
- B. DNS server
- C. Proxy server
- D. Load balancer

Answer: C

NEW QUESTION 531

- (Exam Topic 3)

Which of the following is a specialized piece of hardware designed to encrypt and decrypt user traffic?

- A. Proxy server
- B. TDR
- C. Smart jack
- D. VPN concentrator

Answer: D

NEW QUESTION 532

- (Exam Topic 3)

Which of the following performance optimization techniques would be MOST beneficial for a network-wide VoIP setup? (Select TWO).

- A. Proxy server
- B. Traffic shaping
- C. Caching engines
- D. Load balancing
- E. Quality of service

Answer: BE

NEW QUESTION 536

- (Exam Topic 3)

Which of the following is a terminal emulator used to manage a network device?

- A. VPN
- B. IDS
- C. PuTTY
- D. IPS

Answer: C

NEW QUESTION 539

- (Exam Topic 3)

Which of the following uses a Management Information Base (MIB) to monitor the network?

- A. History Logs
- B. Syslog
- C. SMTP
- D. SNMP

Answer: D

NEW QUESTION 544

- (Exam Topic 3)

A public website using round robin DNS is an example of:

- A. load balancing.
- B. QoS.
- C. caching engines.
- D. traffic shaping.

Answer: A

NEW QUESTION 545

- (Exam Topic 3)

An organization finds that most of the outgoing traffic on the network is directed at several Internet sites viewed by multiple computers simultaneously. Which of the following performance optimization methods would BEST alleviate network traffic?

- A. Load balancing internal web servers
- B. Redundant network resources
- C. Implement fault tolerance on the WAN
- D. Implement caching engines

Answer: D

NEW QUESTION 547

- (Exam Topic 3)

Which of the following could Karen, a network technician, use to find the approximate location of a break in a long network cable?

- A. Protocol analyzer
- B. Time domain reflectometer
- C. Toner probe
- D. Multimeter

Answer: B

NEW QUESTION 550

- (Exam Topic 3)

A company has asked the network administrator to restrict access to any websites with unauthorized material. Which of the following technologies would BEST accomplish this?

- A. Content filter
- B. Packet filter
- C. IPS
- D. IDS

Answer: A

NEW QUESTION 553

- (Exam Topic 3)

A technician is troubleshooting a computer that will not connect to the Internet. The PC is connected to the network. Which of the following tools should the technician use FIRST to understand the NIC configuration?

- A. Protocol analyzer
- B. ipconfig
- C. nslookup
- D. tracert

Answer: B

NEW QUESTION 558

- (Exam Topic 3)

A large company has experienced Internet slowdowns as users have increased their use of the Internet. Which of the following can the Network Administrator use to determine the amount of bandwidth used by type of application?

- A. Network maps
- B. Traffic analysis
- C. Syslog
- D. ICMP

Answer: B

NEW QUESTION 562

- (Exam Topic 3)

Which of the following tools would a technician use to terminate CAT6 wires to the inside of the wall jack?

- A. Toner probe
- B. Cable tester
- C. Punch down
- D. Crimper

Answer: C

NEW QUESTION 566

- (Exam Topic 3)

Which of the following is a method to prioritize network traffic coming from VoIP phones?

- A. PAT
- B. DNS
- C. SIP
- D. QoS

Answer: D

NEW QUESTION 567

- (Exam Topic 3)

Users are reporting wired connectivity drops in a new office with brand new CAT6 infrastructure. Which of the following tools should a technician use to BEST troubleshoot this issue?

- A. OTDR
- B. Protocol analyzer
- C. Toner probe
- D. Cable certifier

Answer: D

NEW QUESTION 571

- (Exam Topic 3)

Which of the following commands would be used to identify how many hops a data packet makes before reaching its final destination?

- A. route
- B. netstat
- C. traceroute
- D. ping 127.0.0.1

Answer: C

NEW QUESTION 575

- (Exam Topic 3)

An administrator edits the network firewall configuration. After editing the configuration, the administrator logs the date and time of the edit and why it was performed in the firewall documentation. Which of the following BEST describes these actions?

- A. Asset management
- B. Baselines
- C. Network maps
- D. Change management

Answer: D

NEW QUESTION 576

- (Exam Topic 3)

Which of the following regulates the amount of network traffic a single node receives in a server cluster?

- A. Load balancer
- B. Proxy server
- C. Content filter
- D. Quality of service

Answer: A

NEW QUESTION 578

- (Exam Topic 3)

A technician testing an Ethernet card uses a cable wired with pins 1,2 to pins 3,6 on the same RJ-45 plug. Which of the following describes what the technician is using?

- A. RS-232
- B. Rollover cable
- C. Loopback
- D. Point to point cable

Answer: C

NEW QUESTION 581

- (Exam Topic 3)

Kim, a network technician, needs to identify the MAC address of a device that is creating broadcast storms on the network. Which of the following tools will provide the needed information?

- A. History logs
- B. Network sniffer
- C. Network maps
- D. Traffic shaping

Answer: B

NEW QUESTION 583

- (Exam Topic 3)

Which of the following commands can a network technician use to check whether the DNS server for a given domain is reachable?

- A. nmap
- B. nbtstat
- C. dig
- D. arp

Answer: C

NEW QUESTION 586

- (Exam Topic 3)

Which of the following would a network administrator recommend to satisfy fault tolerance needs within the datacenter?

- A. Multimode fiber
- B. Setting up a new hot site
- C. Central KVM system
- D. Central UPS system

Answer: D

NEW QUESTION 591

- (Exam Topic 3)

Which of the following is used to ensure traffic flows efficiently on multiple T-1 circuits?

- A. DNS server
- B. Content filter
- C. Proxy server
- D. Load balancer

Answer: D

NEW QUESTION 592

- (Exam Topic 3)

Kurt, a network administrator, is tasked with simplifying the review of events from network devices. Which of the following is used to accomplish this?

- A. History logs
- B. Event logs
- C. Syslog server
- D. Traffic analyzer

Answer: C

NEW QUESTION 594

- (Exam Topic 3)

An administrator would like to decrease the load time of common websites that employees review daily. Which of the following can be installed?

- A. Load balancing
- B. VPN concentrator
- C. Caching server
- D. Fault tolerance

Answer: C

NEW QUESTION 599

- (Exam Topic 3)

Which of the following should Kim, a technician, update when new computers are purchased?

- A. Asset management
- B. Change management

- C. Cable management
- D. Baselines

Answer: A

NEW QUESTION 601

- (Exam Topic 3)

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 602

- (Exam Topic 3)

When troubleshooting a connectivity issue, which of the following commands will give the technician a list of the host names connected to the network?

- A. ping
- B. nbstat
- C. arp
- D. msconfig

Answer: B

NEW QUESTION 605

- (Exam Topic 3)

Which of the following tools would Lisa, a technician, BEST use to trace a wire through an area where multiple wires of the same color are twisted together?

- A. Cable tester
- B. Toner probe
- C. Cable crimper
- D. Punch down tool

Answer: B

NEW QUESTION 610

- (Exam Topic 3)

Management has decided that they want a high level of security. They do not want Internet requests coming directly from users. Which of the following is the BEST recommendation?

- A. Content filter
- B. Proxy server
- C. Layer 3 switch
- D. Firewall

Answer: B

NEW QUESTION 615

- (Exam Topic 3)

Which of the following would be used to check whether a DoS attack is taking place from a specific remote subnet?

- A. Syslog files
- B. Honeypot
- C. Network sniffer
- D. tracert

Answer: C

NEW QUESTION 619

- (Exam Topic 3)

A computer has lost network connectivity. The network technician determines the network cable and the cable drop are both good. Which of the following would the technician use to test the computer's NIC?

- A. Cable certifier
- B. Throughput tester
- C. Loopback plug
- D. Multimeter

Answer: C

NEW QUESTION 624

- (Exam Topic 3)

Sandy, a technician, is troubleshooting a cable problem. She has checked both ends and suspects an issue 50 yards (46 meters) from the location. Which of the following network tools will confirm this analysis?

- A. TDR
- B. Protocol analyzer
- C. Multimeter
- D. Cable crimper

Answer: A

NEW QUESTION 626

- (Exam Topic 3)

Which of the following reasons would MOST likely be used to implement QoS and traffic shaping solutions?

- A. Redundancy
- B. Fault tolerance
- C. Unified communications
- D. Data integrity requirements

Answer: C

NEW QUESTION 630

- (Exam Topic 3)

It has been suspected that one of the users is using the network inappropriately. As a preventive measure HR has authorized the IT department to enable port mirroring on the user's network port. Which of the following devices would be used to monitor the network activity?

- A. Port analyzer
- B. Multimeter
- C. Network sniffer
- D. Cable certifier

Answer: C

NEW QUESTION 633

- (Exam Topic 3)

Karen, an administrator, has created a patch cable. Which of the following tools should she use to check the integrity of the cable?

- A. Protocol analyzer
- B. Toner probe
- C. Cable certifier
- D. Cable stripper

Answer: C

NEW QUESTION 635

- (Exam Topic 3)

Which of the following network devices hides network nodes behind one public IP address?

- A. Layer 3 switch
- B. Content filter
- C. VPN server
- D. Proxy server

Answer: D

NEW QUESTION 639

- (Exam Topic 3)

Which of the following would be used on a network to ensure access to resources if a critical host becomes unavailable?

- A. QoS
- B. CARP
- C. VLAN
- D. DHCP server

Answer: B

NEW QUESTION 643

- (Exam Topic 3)

Users have reported slow access times when retrieving information from a server on the company's network. Which of the following tools would provide access time information on each segment of the network to reach the server?

- A. arp
- B. route
- C. ipconfig
- D. tracer

Answer: D

NEW QUESTION 646

- (Exam Topic 3)

Which of the following commands can Lisa, a technician, use on a server to display the default router setting?

- A. ping
- B. nslookup
- C. route
- D. arp

Answer: C

NEW QUESTION 648

- (Exam Topic 3)

A technician wants to send management information from devices on the network to a central server and have it encrypted in the process. Which of the following protocols can be used?

- A. SNMPv3
- B. FTP
- C. TFTP
- D. Telnet

Answer: A

NEW QUESTION 652

- (Exam Topic 3)

Karen, an administrator, finds a phone line but does not know where the line goes or if it is active. Which of the following can be used to test if it is active?

- A. Butt set
- B. Punch down tool
- C. Cable tester
- D. Cable stripper

Answer: A

NEW QUESTION 654

- (Exam Topic 3)

Sandy, a technician, decides to upgrade a router before leaving for vacation. While away, users begin to report slow performance. Which of the following practices allows other technicians to quickly return the network to normal speeds?

- A. Change management
- B. Baselines
- C. Asset management
- D. Cable management

Answer: A

NEW QUESTION 655

- (Exam Topic 3)

Karen, a technician, suspects a virus has infected the network and is using up bandwidth. She needs to quickly determine which workstation is infected with the virus. Which of the following would BEST help Karen?

- A. Web server
- B. Syslog
- C. Network sniffer
- D. SNMP

Answer: C

NEW QUESTION 658

- (Exam Topic 3)

An application is using port 2000 on a PC. Which of the following could an administrator do to determine what software is listening on that port?

- A. Run netstat
- B. Run dig
- C. Run nbtstat
- D. Run tracert

Answer: A

NEW QUESTION 661

- (Exam Topic 3)

A user reports intermittent network connectivity. Which of the following should a technician configure on the managed switch to help troubleshoot this issue?

- A. SMTP
- B. SNTP
- C. SNMP

D. SNAT

Answer: C

NEW QUESTION 664

- (Exam Topic 3)

Which of the following can assist when troubleshooting a cable that meets the 1000BaseLX specification?

- A. Multimeter
- B. OTDR
- C. Link state
- D. Protocol analyzer

Answer: B

NEW QUESTION 666

- (Exam Topic 3)

DNS lookups for a given host are intermittently failing. Which of the following would Kim, a technician, MOST likely use to verify this problem?

- A. arp
- B. nbtstat
- C. traceroute
- D. dig

Answer: D

NEW QUESTION 667

- (Exam Topic 3)

Which of the following VPN methods is BEST used for connecting a remote office to the main company office?

- A. WEP-to-WPA
- B. RDP-to-RAS
- C. Client-to-site
- D. Site-to-site

Answer: D

NEW QUESTION 671

- (Exam Topic 3)

Sandy, a user, is unable to map a drive to a known NetBIOS share. A ping from the client to the server is successful. Which of the following software tools is used to check if NetBIOS is enabled?

- A. netstat
- B. arp
- C. nbtstat
- D. nslookup

Answer: C

NEW QUESTION 672

- (Exam Topic 3)

An administrator is attempting to troubleshoot a program that is unable to resolve IP addresses from FQDNs. Which of the following commands is used to check reverse DNS settings?

- A. dig
- B. ifconfig
- C. nbtstat
- D. route

Answer: A

NEW QUESTION 676

- (Exam Topic 3)

Users are reporting a large decrease in network performance. After further investigation, the network administrator notices large amounts of traffic coming from a specific IP address. The network administrator needs to identify the payload of the network traffic. Which of the following could be used to collect that information?

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

Answer: C

NEW QUESTION 678

- (Exam Topic 3)

Which of the following is used to verify configuration updates on a firewall?

- A. Signature identification
- B. Access control lists
- C. Scanning services
- D. Content filtering

Answer: A

NEW QUESTION 680

- (Exam Topic 3)

A network administrator opens up the RDP port to access network resources from home. Several months later, the administrator's account is getting locked out constantly. After closing the port, which of the following should be used to identify the source of the attack?

- A. Network maps
- B. Change management
- C. Log analysis
- D. Protocol analyzer

Answer: C

NEW QUESTION 685

- (Exam Topic 4)

A network administrator is considering implementation of network access restrictions based upon layer two addressing information. Which of the following describes this method of network restrictions?

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

Answer: A

NEW QUESTION 687

- (Exam Topic 4)

Which of the following can use a third party back-end LDAP user database for authentication?

- A. ISAKMP
- B. TACACS+
- C. PKI
- D. CHAP

Answer: B

NEW QUESTION 689

- (Exam Topic 4)

Which of the following wireless security measures, although widely implemented, does not provide strong security?

- A. IPSec
- B. WPA2
- C. MAC address filtering
- D. 802.1x

Answer: C

NEW QUESTION 691

- (Exam Topic 4)

Which of the following attacks creates a buffer overflow to stop access to a system?

- A. Blue jacking
- B. DoS
- C. Netstat
- D. Man-in-the-middle

Answer: B

NEW QUESTION 694

- (Exam Topic 4)

Stateful packet inspection is a security technology used by which of the following devices?

- A. Unmanaged switch
- B. Hardware firewall
- C. Bridge
- D. IDS

Answer: B

NEW QUESTION 696

- (Exam Topic 4)

A system administrator is implementing an IDS on the database server to see who is trying to access the server. The administrator relies on the software provider for what to detect. Which of the following would MOST likely be installed?

- A. Behavior based IDS
- B. Network based IDS
- C. Signature based IDS
- D. Honeypot

Answer: C

NEW QUESTION 700

- (Exam Topic 4)

Lisa, a network administrator, wants to be able to block all already known malicious activity. Which of the following would allow her to perform this activity?

- A. Behavioral Based IDS
- B. Signature Based IDS
- C. Behavioral Based IPS
- D. Signature Based IPS

Answer: D

NEW QUESTION 701

- (Exam Topic 4)

Which of the following is an authentication, authorization, and accounting method that provides administrative access to network devices?

- A. PKI
- B. TACACS+
- C. CHAP
- D. SSH

Answer: B

NEW QUESTION 705

- (Exam Topic 4)

A technician is troubleshooting authentication issues on a server. It turns out the clock on the server was 72 minutes behind. Setting the clock to the correct time fixed the issue. Given the scenario, which of the following authentication methods was being used?

- A. Kerberos
- B. CHAP
- C. TACACS+
- D. RADIUS

Answer: A

NEW QUESTION 706

- (Exam Topic 4)

Sandy, a home user, wishes to confine a wireless network to devices ONLY inside of her house. Which of the following will accomplish this?

- A. Decreasing radio strength
- B. MAC filtering
- C. WEP encryption
- D. SSID broadcast disable

Answer: A

NEW QUESTION 710

- (Exam Topic 4)

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 714

- (Exam Topic 4)

A company needs to implement a secure wireless system that would require employees to authenticate to the wireless network with their domain username and password. Which of the following would a network administrator deploy to implement these requirements? (Select TWO).

- A. 802.1q
- B. MAC address filtering

- C. WPA2 Personal
- D. WPA Enterprise
- E. 802.1x

Answer: DE

NEW QUESTION 718

- (Exam Topic 4)

The company is setting up a new website that will be requiring a lot of interaction with external users. The website needs to be accessible both externally and internally but without allowing access to internal resources. Which of the following would MOST likely be configured on the firewall?

- A. PAT
- B. DHCP
- C. DMZ
- D. NAT

Answer: C

NEW QUESTION 720

- (Exam Topic 4)

Which of the following tools will scan a network for hosts and provide information on the installed operating system?

- A. DOCSIS
- B. NMAP
- C. IMAP
- D. BERT

Answer: B

NEW QUESTION 724

- (Exam Topic 4)

A network administrator is tasked with deploying a company-wide wireless system which allows for accurate tracking of employees' wireless device locations via WAP triangulation. Which of the following is the MOST important aspect of the deployment?

- A. WAP placement
- B. TX/RX channel
- C. Signal strength
- D. Transmission power

Answer: A

NEW QUESTION 725

- (Exam Topic 4)

The security measure used to reduce vulnerabilities for MOST network devices that require regular application and monitoring is:

- A. Patch management.
- B. Security limitations.
- C. Documentation.
- D. Social engineering.

Answer: A

NEW QUESTION 727

- (Exam Topic 4)

Which of the following describes a single computer that is setup specifically to lure hackers into revealing their methods, and preventing real attacks on the production network?

- A. Evil twin
- B. Honeytrap
- C. DMZ
- D. Honeytrap

Answer: B

NEW QUESTION 730

- (Exam Topic 4)

Ann, a home user, wishes to confine a wireless network to devices ONLY inside of her house. Which of the following will accomplish this?

- A. Decreasing radio strength
- B. MAC filtering
- C. WEP encryption
- D. SSID broadcast disable

Answer: A

NEW QUESTION 733

- (Exam Topic 4)

Karen, an administrator, would like to inspect all traffic flowing over the SMTP protocol on a given network. Which of the following tools would accomplish this? (Select TWO).

- A. Packet sniffer
- B. Honeypot
- C. Port mirroring
- D. IPS
- E. Port scanner
- F. IDS

Answer: AC

NEW QUESTION 736

- (Exam Topic 4)

The security administrator needs to restrict specific devices from connecting to certain WAPs. Which of the following security measures would BEST fulfill this need?

- A. WAP placement
- B. MAC address filtering
- C. Content filtering
- D. Encryption type and strength

Answer: B

NEW QUESTION 739

- (Exam Topic 4)

A network technician has recently discovered rogue devices on their network and wishes to implement a security feature that will prevent this from occurring. Which of the following will prevent unauthorized devices from connecting to a network switch?

- A. Implement 802.11i on all switches in the network.
- B. Implement port security on all computers in the company.
- C. Implement port security on all switches in the network.
- D. Implement rules on the firewall to block unknown devices.

Answer: C

NEW QUESTION 742

- (Exam Topic 4)

A corporate office recently had a security audit and the IT manager has decided to implement very strict security standards. The following requirements are now in place for each employee logging into the network:

Biometric fingerprint scan
Complex 12 character password
5 digit pin code authorization

Randomized security question prompt upon login

Which of the following security setups does this company employ?

- A. Single factor authentication
- B. Three factor authentication
- C. Two factor authentication
- D. Single sign-on

Answer: C

NEW QUESTION 745

- (Exam Topic 4)

A user enters a password into a logon box on a PC. The server and the PC then compare one-way hashes to validate the password. Which of the following methods uses this process?

- A. PKI
- B. Kerberos
- C. Single sign-on
- D. CHAP

Answer: D

NEW QUESTION 749

- (Exam Topic 4)

An organization recently installed a firewall on the network. Employees must be able to send and receive email from a POP3 server. In which of the following ways should the firewall be configured? (Select TWO).

- A. Allow TCP port 23
- B. Allow TCP port 25
- C. Allow TCP port 110
- D. Allow UDP port 25
- E. Allow UDP port 110

Answer: BC

NEW QUESTION 754

- (Exam Topic 4)

Which of the following protocols is used by Windows to securely access a remote computer?

- A. RAS
- B. Telnet
- C. PPP
- D. RDP

Answer: D

NEW QUESTION 758

- (Exam Topic 4)

A strong network firewall would likely support which of the following security features for controlling access? (Select TWO).

- A. War driving
- B. War chalking
- C. MAC filtering
- D. FTP bouncing
- E. Port filtering

Answer: CE

NEW QUESTION 762

- (Exam Topic 4)

Which of the following is needed when using WPA2-Enterprise wireless encryption?

- A. TFTP
- B. RADIUS
- C. LDAP
- D. IPSec

Answer: B

NEW QUESTION 764

- (Exam Topic 4)

A network technician has configured a new firewall with a rule to deny UDP traffic. Users have reported that they are unable to access Internet websites. The technician verifies this using the IP address of a popular website. Which of the following is the MOST likely cause of the error?

- A. Implicit deny
- B. HTTP transports over UDP
- C. Website is down
- D. DNS server failure

Answer: A

NEW QUESTION 769

- (Exam Topic 4)

Which of the following does Kerberos provide?

- A. Non-repudiation
- B. Accounting
- C. Exchange
- D. Authentication

Answer: D

NEW QUESTION 772

- (Exam Topic 4)

A network administrator is implementing an IPS on VLAN 1 and wants the IPS to learn what to prevent on its own. Which of the following would MOST likely be installed?

- A. Honey net
- B. Signature based IPS
- C. Behavior based IPS
- D. Host based IPS

Answer: C

NEW QUESTION 776

- (Exam Topic 4)

Honeypots and honeynets are different in which of the following ways?

- A. Honeynets are managed collections of honeypots.
- B. Honeypots only test software security, not hardware.
- C. Honeynets require specialized hardware to implement.
- D. Honeypots are usually servers and honeynets are routers and switches.

Answer: A

NEW QUESTION 781

- (Exam Topic 4)

Which of the following is an example of asymmetric encryption?

- A. PKI
- B. SHA1
- C. AES
- D. 3DES

Answer: A

NEW QUESTION 783

- (Exam Topic 4)

A network administrator is looking to implement a solution allowing users to utilize a common password to access most network resources for an organization. Which of the following would BEST provide this functionality?

- A. RADIUS
- B. Single sign on
- C. Multifactor authentication
- D. Two-factor authentication

Answer: B

NEW QUESTION 787

- (Exam Topic 4)

An administrator needs to provide remote connectivity to server1, web traffic to server2, and FTP access to server3 using a single outside IP address. Which of the following would the administrator implement on the firewall to accomplish this?

- A. Port Address Translation
- B. Demilitarized Zone
- C. Stateful Packet Inspection
- D. Network Address Translation

Answer: A

NEW QUESTION 789

- (Exam Topic 4)

Which of the following is a standard measure of signal power?

- A. MHz
- B. mips
- C. dBm
- D. Gbps

Answer: C

NEW QUESTION 794

- (Exam Topic 4)

Which of the following uses SSL encryption?

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

Answer: C

NEW QUESTION 799

- (Exam Topic 4)

Which of the following would be used to place extranet servers in a separate subnet for security purposes?

- A. VPN
- B. NAT
- C. DMZ
- D. IDS

Answer: C

NEW QUESTION 804

- (Exam Topic 4)

A network administrator wants to add the firewall rule to allow SSH traffic to the FTP server with the assigned IP 192.168.0.15 from the Internet. Which of the following is the correct firewall rule?

- A. Allow ANY to 192.168.0.15 port 21
- B. Allow ANY to 192.168.0.15 port 22
- C. Allow ANY to 192.168.0.15 port 80
- D. Allow ANY to ANY port ANY

Answer: B

NEW QUESTION 807

- (Exam Topic 4)

Which of the following solutions will detect and disable a rogue access point?

- A. Port scan
- B. Packet sniffer
- C. IPS
- D. IDS

Answer: C

NEW QUESTION 809

- (Exam Topic 4)

Which of the following provides RSA encryption at the session layer?

- A. SSH
- B. ISAKMP
- C. SSL
- D. TLS

Answer: C

NEW QUESTION 813

- (Exam Topic 4)

Network upgrades have been completed and the WINS server was shutdown. It was decided that NetBIOS network traffic will no longer be permitted. Which of the following will accomplish this objective?

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

Answer: B

NEW QUESTION 817

- (Exam Topic 4)

Which of the following authentication solutions use tickets that include valid credentials to access additional network resources?

- A. Kerberos
- B. RADIUS
- C. Multi-factor authentication
- D. TACACS+

Answer: A

NEW QUESTION 822

- (Exam Topic 4)

A network administrator is setting up a WAP and wants to disable the ability of gaining access from the parking garage. Which of the following should the network administrator review?

- A. Signal strength
- B. SSID name
- C. WPA2 encryption
- D. WEP encryption

Answer: A

NEW QUESTION 824

- (Exam Topic 4)

Which of the following is MOST commonly implemented for remote access to UNIX systems?

- A. SSL
- B. RSH
- C. SSH
- D. RDP

Answer: C

NEW QUESTION 829

- (Exam Topic 4)

A network administrator must ensure that both the server and the client are authenticated to the wireless system before access is granted. Which of the following should be implemented to meet this requirement?

- A. EAP-LEAP
- B. MAC ACL
- C. EAP-TTLS
- D. MS-CHAPv2

Answer: C

NEW QUESTION 831

- (Exam Topic 4)

Which of the following BEST describes a firewall that can be installed via Add/Remove programs on a Windows computer?

- A. Managed
- B. Software
- C. Hardware
- D. Wireless

Answer: B

NEW QUESTION 832

- (Exam Topic 4)

Which of the following will BEST block a host from accessing the LAN on a network using static IP addresses?

- A. IP filtering
- B. Port filtering
- C. MAC address filtering
- D. DHCP lease

Answer: A

NEW QUESTION 836

- (Exam Topic 4)

An administrator would like to scan for open ports on the subnet and determine if any vulnerable applications are listening. Which of the following tools would the administrator MOST likely use?

- A. Ping
- B. Nessus
- C. IMAP
- D. Telnet

Answer: B

NEW QUESTION 841

- (Exam Topic 4)

Which of the following tools could attempt to detect operating system vulnerabilities?

- A. nslookup
- B. honeynet
- C. netstat
- D. nessus

Answer: D

NEW QUESTION 846

- (Exam Topic 4)

An attack used to find unencrypted information in network traffic is called:

- A. WEP cracking.
- B. Packet sniffing.
- C. Ping sweep.
- D. Social engineering.

Answer: B

NEW QUESTION 847

- (Exam Topic 4)

Which of the following network access methods is the MOST secure?

- A. PPPoE
- B. SIP
- C. RSH
- D. IPSec

Answer: D

NEW QUESTION 851

- (Exam Topic 4)

Which of the following preventative measures would BEST secure a web server from being port scanned by attackers publicly?

- A. Content filter
- B. Proxy server
- C. ACL implicit allow
- D. Firewall

Answer: D

NEW QUESTION 855

- (Exam Topic 4)

A NAS appliance has had a failed NIC replaced. Now the NAS appliance is no longer visible on the network. Which of the following is the MOST likely cause of the problem?

- A. The network cable connecting the NAS to the network switch is bad.
- B. The network port that the appliance is connected to is assigned to the wrong VLAN.
- C. Port security on the Ethernet switch has disabled the port.
- D. Firewall needs to be updated for the new NAS device.

Answer: C

NEW QUESTION 858

- (Exam Topic 4)

A technician needs to enter a username and password and have their fingerprint scanned to access a server. Which of following types of authentication is this an example of?

- A. Single sign-on
- B. Network access control
- C. PKI authentication
- D. Two-factor authentication

Answer: D

NEW QUESTION 861

- (Exam Topic 4)

An administrator would like to inspect all traffic flowing over the SMTP protocol on a given network. Which of the following tools would accomplish this? (Select TWO).

- A. Packet sniffer
- B. Honeypot
- C. Port mirroring
- D. IPS
- E. Port scanner
- F. IDS

Answer: AC

NEW QUESTION 862

- (Exam Topic 4)

Which of the following is an example of two-factor authentication?

- A. A username and PIN
- B. A username and password
- C. A username, password, finger print scan, and smart card
- D. A username, password, and key fob number

Answer: D

NEW QUESTION 863

- (Exam Topic 4)

A company only wants preapproved laptops to be able to connect to a wireless access point. Which of the following should be configured?

- A. SSID disable
- B. ACL rules
- C. WPA encryption
- D. MAC filtering

Answer: D

NEW QUESTION 865

- (Exam Topic 4)

Kim, a user, reports that the web browser is indicating the site certificate is not trusted. Which of the following attacks may be in progress?

- A. Man-in-the-middle

- B. Denial of service
- C. Ping flooding
- D. Smurfing

Answer: A

NEW QUESTION 870

- (Exam Topic 5)

Multiple computers are connected to a hub near a wall plate. In order to get to the computers, students step on and around the cable that connects the teacher's station, a few feet away, to the same hub. The teacher is experiencing no network connectivity. Which of the following is MOST likely the problem?

- A. Cross-talk
- B. Split cables
- C. Distance
- D. EMI

Answer: B

NEW QUESTION 873

- (Exam Topic 5)

Which of the following wireless parameters may need to be modified when a new cordless telephone is installed?

- A. Encryption type
- B. SSID
- C. IP address
- D. Channel

Answer: D

NEW QUESTION 874

- (Exam Topic 5)

When a patch cable is plugged into a switch, all port activity indicators turn on and users instantly lose network connectivity. Which of the following is the MOST likely diagnosis?

- A. Denial of service attack
- B. MTU black hole
- C. Switching loop
- D. Defective patch cable

Answer: C

NEW QUESTION 875

- (Exam Topic 5)

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 880

- (Exam Topic 5)

An administrator is troubleshooting analog telephony issues on the punch down block. Which of the following tools would be MOST useful in this scenario?

- A. T1 loopback
- B. Butt set
- C. Multimeter
- D. Protocol analyzer

Answer: B

NEW QUESTION 885

- (Exam Topic 5)

A user reports that they are unable to access a new server but are able to access all other network resources. Based on the following firewall rules and network information, which of the following ACL entries is the cause?

User's IP: 192.168.5.14

Server IP: 192.168.5.17

Firewall rules:

Permit 192.168.5.16/28 192.168.5.0/28

Permit 192.168.5.0/24 192.168.4.0/24

Permit 192.168.4.0/24 192.168.5.0/24

Deny 192.168.5.0/28 192.168.5.16/28

Deny 192.168.14.0/24 192.168.5.16/28

Deny 192.168.0.0/24 192.168.5.0/24

- A. Deny 192.168.0.0/24 192.168.5.0/24
- B. Deny 192.168.5.0/28 192.168.5.16/28
- C. Deny 192.168.14.0/24 192.168.5.16/28
- D. Implicit Deny rule

Answer: B

NEW QUESTION 889

- (Exam Topic 5)

A user cannot access the LAN after working successfully most of the day. Which of the following should the network administrator check FIRST?

- A. VLAN settings
- B. History logs
- C. Patch cable
- D. Port security

Answer: C

NEW QUESTION 893

- (Exam Topic 5)

Using source port numbers as a way to keep track of connections is a characteristic of which of the following protocols?

- A. TCP
- B. UDP
- C. NAT
- D. PAT

Answer: D

NEW QUESTION 894

- (Exam Topic 5)

When installing new WAPs in a small office, which of the following is the BEST way to physically mitigate the threats from war driving?

- A. Implement multiple wireless encryption techniques.
- B. Implement PoE on each WAP.
- C. Decrease signal strength.
- D. Increase signal strength.

Answer: C

NEW QUESTION 896

- (Exam Topic 5)

Which of the following can be used to limit wireless network access to a single computer?

- A. Configure PPP
- B. Packet sniffing
- C. MAC address filtering
- D. Omni-directional antennas

Answer: C

NEW QUESTION 897

- (Exam Topic 5)

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 901

- (Exam Topic 5)

Which of the following port numbers needs to be open on a firewall to allow FTP traffic?

- A. 21
- B. 22
- C. 23
- D. 25

Answer: A

NEW QUESTION 903

- (Exam Topic 5)

Various desktop computers are not getting a link light even though the patch cables were replaced. Cables on a 110-block patch panel are suspected to be causing the issues. Which of the following hardware tools would MOST likely be used to troubleshoot and resolve the issue? (Select TWO).

- A. Cable certifier
- B. Ping command
- C. Punch down tool
- D. Crimper
- E. Toner probe

Answer: AC

NEW QUESTION 908

- (Exam Topic 5)

Zach, a technician, needs to terminate a CAT5e Ethernet cable to a 110 block. Which of the following tools should he use?

- A. Toner probe
- B. Punch down
- C. Wire tester
- D. Crimper

Answer: B

NEW QUESTION 913

- (Exam Topic 5)

Which of the following wiring distribution types, often found in company closets, is used to connect wiring from individual offices to the main LAN cabling?

- A. MDF
- B. 66 block
- C. IDF
- D. Patch panel

Answer: D

NEW QUESTION 914

- (Exam Topic 5)

A technician is looking to create a new network cable. Which of the following tools would assist in creating and testing a cable properly? (Select TWO).

- A. Toner probe
- B. Cable certifier
- C. Butt set
- D. Crimper
- E. Network analyzer

Answer: BD

NEW QUESTION 916

- (Exam Topic 5)

Which of the following TCP ports are used by FTP? (Select TWO).

- A. 20
- B. 21
- C. 22
- D. 23
- E. 25
- F. 80

Answer: AB

NEW QUESTION 920

- (Exam Topic 5)

A network technician is assigned to view websites that a user has visited. Which of the following should the technician review to find this information?

- A. Event viewer
- B. History logs
- C. Network sniffer
- D. System logs

Answer: B

NEW QUESTION 921

- (Exam Topic 5)

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 924

- (Exam Topic 5)

A consultant is installing new WAPs for an office using wall mounts. Which of the following is the BEST location for the new boxes for signal strength and coverage?

- A. Above the suspended ceiling with antennas positioned upward.
- B. Close to the floor level to allow the signal to traverse the floor laterally.
- C. Close to the suspended ceiling, but not above.
- D. Above the suspended ceiling with antennas positioned downward.

Answer: C

NEW QUESTION 925

- (Exam Topic 5)

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 929

- (Exam Topic 5)

Which of the following technologies allows for redundant links within a Layer 2 segment?

- A. OSPF
- B. RIP
- C. Port Mirroring
- D. Spanning Tree

Answer: D

NEW QUESTION 932

- (Exam Topic 5)

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 935

- (Exam Topic 5)

Ann, a new user, has a workstation that has connectivity to the printer located in her department, but cannot access the Internet. The result of an ipconfig command on Ann's workstation is as follows:

IP address: 192.168.0.124
Subnet Mask: 255.255.255.128
Default Gateway: 192.168.0.254

Which is MOST likely preventing the user from accessing the Internet?

- A. Duplicate IP address
- B. Incorrect gateway
- C. Incorrect VLAN
- D. Bad switch port

Answer: B

NEW QUESTION 939

- (Exam Topic 5)

A new technician has been tasked with implementing a QoS policy for the Network. The technician decides it would be best to monitor the information traversing the network to gain statistical information on ports and protocols utilized. Which of the following tools should the technician use to complete this objective QUICKEST?

- A. Traffic analyzer
- B. Network sniffer
- C. SNMPv3
- D. System logs

Answer: A

NEW QUESTION 943

- (Exam Topic 5)

* 203.50.5.1 is an example of which of the following network classes?

- A. Class A
- B. Class B
- C. Class C
- D. Class D

Answer: C

NEW QUESTION 948

- (Exam Topic 5)

Joe, a remote user, has called the helpdesk with an issue on his machine. The technician would like to remote into the machine for troubleshooting but does not know the IP address or host name. Which of the following commands can the technician ask Joe to execute to gain this information?

- A. netstat
- B. ipconfig
- C. ping
- D. traceroute

Answer: B

NEW QUESTION 949

- (Exam Topic 5)

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 954

- (Exam Topic 5)

Which of the following ports is used by Telnet?

- A. 21
- B. 23
- C. 80
- D. 143

Answer: B

NEW QUESTION 958

- (Exam Topic 5)

The network administrator just upgraded all of the WAPs to new ones with 2.4 GHz b/g/n support. The new WAPs reuse the same location and channel as the previous one and with no new external interference detected. However, performance issues are now occurring that did not exist before. Which of the following would correct the issue?

- A. Configure Wi-Fi Multimedia support
- B. Use only 20 MHz channel bandwidth
- C. Enable band steering to use 802.11n
- D. Configure Quality of Service

Answer: B

NEW QUESTION 961

- (Exam Topic 5)

In a newly installed LAN, the network administrator receives many calls about intermittent or slow connectivity to the authentication server. Which of the following could cause this problem? (Select TWO).

- A. VLAN configuration error
- B. Cables too short
- C. Cable crosstalk
- D. Incorrect channel
- E. EMI
- F. Wrong subnet mask

Answer: CE

NEW QUESTION 964

- (Exam Topic 5)

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 967

- (Exam Topic 5)

Which of the following separates broadcast domains?

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

Answer: B

NEW QUESTION 968

- (Exam Topic 5)

Which of the following could be used to estimate RTT across a router?

- A. dig
- B. traceroute
- C. arp
- D. uptime

Answer: B

NEW QUESTION 972

- (Exam Topic 5)

Which of the following is the correct representation of an IPv6 address?

- A. ::
- B. 0:0:0:0:0:0:0:1
- C. 1:2:3:4:AB:CD:EF
- D. 2001::4860:800f::

Answer: A

NEW QUESTION 973

- (Exam Topic 5)

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 975

- (Exam Topic 5)

Which of the following technologies could be implemented to improve call clarity when using VoIP technology?

- A. Static IP addressing
- B. Caching engines
- C. QoS
- D. Port forwarding

Answer: C

NEW QUESTION 976

- (Exam Topic 5)

Which of the following protocols are used for accessing a command line terminal session for management purposes? (Select TWO).

- A. Telnet
- B. FTP
- C. SNMP
- D. SSH
- E. RDP

Answer: AD

NEW QUESTION 981

- (Exam Topic 5)

A network technician is trying to terminate CAT5 modular jacks. Which of the following tools would be MOST appropriate for this scenario?

- A. Crimper
- B. OTDR
- C. Throughput tester
- D. Punch down tool

Answer: D

NEW QUESTION 983

- (Exam Topic 5)

Which of the following switches is used with ARP to display the cache entry for a specific IP address?

- A. -a
- B. -d
- C. -g
- D. -s

Answer: A

NEW QUESTION 987

- (Exam Topic 5)

The network administrator installed a new dipole antenna that extends 100 feet (30.48 meters) from the existing AP. All components are correct, functional, and installed properly. However, during validation, there is a very weak signal coming from the antenna. Which of the following is the MOST likely cause of the issue?

- A. The installation exceeds the link limitations
- B. The antenna is mounted for vertical polarization
- C. The dBi output of the antenna is too low
- D. The radio is too powerful for the installation

Answer: A

NEW QUESTION 990

- (Exam Topic 5)

Which of the following can determine the last time an address lease was renewed on a network device?

- A. System log
- B. Packet sniffer
- C. Time domain reflectometer
- D. Stateful packet filter

Answer: A

NEW QUESTION 993

- (Exam Topic 5)

During business hours, users at a small office are reporting that all of a sudden they are unable to reach any host on the Internet, but they can still use the network shares to transfer files within the office. Which of the following is the MOST likely cause of the outage?

- A. Wrong gateway
- B. Failed router
- C. Bad switch module
- D. Incorrect VLAN

Answer: B

NEW QUESTION 998

- (Exam Topic 5)

Which of the following network protocols is used to transport email across the Internet?

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

Answer: C

NEW QUESTION 1001

- (Exam Topic 5)

A network administrator is adding 24 - 802.3af class 2 VoIP phones and needs to purchase a single PoE switch to power the phones. Which of the following is the MINIMUM PoE dedicated wattage the switch supports to power all of the phones at full power?

- A. 96W
- B. 168W
- C. 240W
- D. 369.6W

Answer: B

NEW QUESTION 1004

- (Exam Topic 5)

Given a subnet mask of 255.255.255.0, how many usable IP addresses would be in that subnet?

- A. 250
- B. 254
- C. 255
- D. 256

Answer: B

NEW QUESTION 1006

- (Exam Topic 5)

The term virtual switch refers to which of the following?

- A. A switch that has not yet been implemented in the local network
- B. Migrating an entire environment to virtualization
- C. A computer component that controls environmental elements, such as lights and thermometers
- D. A logical, rather than a physical switch device

Answer: D

NEW QUESTION 1007

- (Exam Topic 5)

At which of the following layers of the OSI model is the Logical Link Control found?

- A. Layer 2
- B. Layer 3
- C. Layer 4
- D. Layer 5

Answer: A

NEW QUESTION 1009

- (Exam Topic 5)

A company wants to ensure that a wireless signal from their WAP only sends down one specific corridor. Which of the following can be done to achieve this?

- A. Disable the SSID.
- B. Change the broadcast channel.
- C. Lower the signal strength.
- D. Change the antennas.

Answer: D

NEW QUESTION 1013

- (Exam Topic 5)

Which of the following wireless standards provide speeds up to 150Mbps?

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

Answer: D

NEW QUESTION 1018

- (Exam Topic 5)

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 1023

- (Exam Topic 5)

Which of the following communication modes has the LOWEST overhead necessary to support streaming protocols such as RTP?

- A. Connectionless
- B. Stateful
- C. Full Duplex

D. Quality of Service

Answer: A

NEW QUESTION 1025

- (Exam Topic 5)

Lisa, a technician, has configured a new switch that is remotely accessed using SSH. The switch is working properly but cannot be accessed remotely. Which of the following items is MOST likely missing in the configuration?

- A. Port speed
- B. Cryptokey
- C. Data VLAN
- D. NAT/PAT

Answer: B

NEW QUESTION 1028

- (Exam Topic 5)

A user at a small business states that they cannot connect to the Internet via the company's wireless network every time their cordless phone rings. Which of the following is MOST likely occurring?

- A. Interference
- B. Incorrect encryption type
- C. Latency
- D. SSID mismatch

Answer: A

NEW QUESTION 1033

- (Exam Topic 5)

Which of the following wireless standards is capable of ONLY operating on 5.8GHz?

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

Answer: A

NEW QUESTION 1034

- (Exam Topic 5)

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 1037

- (Exam Topic 5)

When using high bandwidth applications over multiple WAN connections, which of the following should be used?

- A. Static IP addressing
- B. Half-duplex
- C. PoE devices
- D. Load balancing

Answer: D

NEW QUESTION 1038

- (Exam Topic 5)

Which of the following protocols are used to connect devices in a secure manner? (Select TWO).

- A. TELNET
- B. SSH
- C. RDP
- D. HTTP
- E. DNS
- F. FTP

Answer: BC

NEW QUESTION 1040

- (Exam Topic 5)

Which of the following performs authentication and provides a secure connection by using 3DES to encrypt all information between two systems?

- A. HTTPS
- B. SSH
- C. RSA
- D. SSL

Answer: B

NEW QUESTION 1041

- (Exam Topic 5)

Which of the following WAN technology types has the GREATEST latency?

- A. ISDN
- B. Fiber
- C. Satellite
- D. Cable

Answer: C

NEW QUESTION 1042

- (Exam Topic 5)

A DSL modem connects to the provider's network using which of the following authentication techniques?

- A. PoE
- B. MS-CHAP
- C. PPPoE
- D. EAP

Answer: C

NEW QUESTION 1046

- (Exam Topic 5)

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 1049

- (Exam Topic 5)

A network is having problems with traffic flowing to several critical websites that are used for necessary company work. Which of the following appliances would BEST handle network traffic to increase network performance?

- A. Caching engine
- B. Traffic shaper
- C. Network based firewall
- D. Packet sniffer

Answer: B

NEW QUESTION 1054

- (Exam Topic 5)

Which of the following wireless standards can transmit data up to 540Mbps?

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

Answer: D

NEW QUESTION 1059

- (Exam Topic 5)

When configuring a WAP for a SOHO, which parameter will BEST limit access to the office area?

- A. Signal strength
- B. SSID enable
- C. Encryption
- D. Password hardening

Answer: A

NEW QUESTION 1064

- (Exam Topic 5)

A network technician visits a site that needs voice connectivity to the corporate office and installs four IP phones. The phone exchange resides at the telephone company. Which of the following technologies is being used?

- A. Virtual switch
- B. Virtual server
- C. Virtual desktop
- D. Virtual PBX

Answer: D

NEW QUESTION 1069

- (Exam Topic 5)

Users trying to access a website using HTTPS are being blocked by the firewall. Which of the following ports needs to be allowed?

- A. 80
- B. 143
- C. 443
- D. 3389

Answer: C

NEW QUESTION 1073

- (Exam Topic 5)

Zach, a network technician, is unable to remotely manage or ping certain layer 2 switches. To manage those devices remotely, which of the following will MOST likely need to be configured?

- A. IP address on the native VLAN interface
- B. Port security
- C. Port forwarding
- D. IP address on the fiber interface

Answer: A

NEW QUESTION 1074

- (Exam Topic 5)

During a blizzard, a technician decides to work from home but is unable to connect to the company's network. Which of the following is MOST likely taking place at the office?

- A. Switching loop
- B. Wrong DNS
- C. Power failure
- D. Duplicate IP address

Answer: C

NEW QUESTION 1079

- (Exam Topic 5)

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 1081

- (Exam Topic 5)

If a wireless key gets compromised, which of the following would MOST likely prevent an unauthorized device from getting onto the network?

- A. Device placement
- B. Wireless standard
- C. Encryption type
- D. MAC filtering

Answer: D

NEW QUESTION 1082

- (Exam Topic 5)

Which of the following wiring components is used as a central point of termination for all network jacks through a building area?

- A. Demarc
- B. CSU
- C. Patch Panel

D. Smart Jack

Answer: C

NEW QUESTION 1084

- (Exam Topic 5)

Which of the following wireless standards has a MAXIMUM transfer rate of 11Mbps?

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

Answer: B

NEW QUESTION 1088

- (Exam Topic 5)

A user calls the helpdesk to report not being able to access network resources over the company's Wi-Fi connection. During information gathering, the user mentions that the wireless network their computer is signed into is not the same name as it had been previously. Which of the following is the underlying cause?

- A. SSID mismatch
- B. Incorrect WPA key
- C. Signal bounce
- D. Antenna placement

Answer: A

NEW QUESTION 1089

- (Exam Topic 5)

Which of the following connectors is used on a coaxial cable?

- A. F
- B. LC
- C. RJ-11
- D. ST

Answer: A

NEW QUESTION 1094

- (Exam Topic 5)

Which of the following can be used to decrypt SSL packets which encapsulate internal network addresses in the payload?

- A. Proxy server
- B. Content filter
- C. Load balancer
- D. VPN concentrator

Answer: D

NEW QUESTION 1095

- (Exam Topic 5)

Joe, a user, has a computer that has a link light on his network interface card (NIC); however, Joe is unable to access the Internet. Which of the following is the cause of this issue?

- A. Faulty GBIC
- B. Faulty SFP
- C. Cable is a crossover
- D. VLAN mismatch

Answer: D

NEW QUESTION 1098

- (Exam Topic 5)

Which of the following connector types would be found with a VoIP system utilizing CAT6 cabling?

- A. SC
- B. RJ-45
- C. RJ-11
- D. BNC

Answer: B

NEW QUESTION 1102

- (Exam Topic 5)

There is suspected virus activity on the network. Which of the following would Lisa, a technician, use to study network traffic?

- A. Protocol analyzer
- B. Cable tester
- C. Cable certifier
- D. Environmental monitor

Answer: A

NEW QUESTION 1106

- (Exam Topic 5)

A technician needs to test the length of a newly installed cable run because it is believed that it exceeds the maximum specification length. Which of the following tools should be used?

- A. Cable certifier
- B. Toner probe
- C. Cable tester
- D. Protocol analyzer

Answer: A

NEW QUESTION 1107

- (Exam Topic 5)

Under each network device, drag and drop the associated broadcast and/or collision description. Objects may be used multiple times, as needed.

	Router	Layer 2 Switch	Wireless AP	Hub
Broadcast Domain	<div></div>	<div></div>	<div></div>	<div></div>
Collision Domain	<div></div>	<div></div>	<div></div>	<div></div>
	Multiple Broadcast Domains	Single Broadcast Domains	Multiple Collision Domains	Single Collision Domains

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

	Router	Layer 2 Switch	Wireless AP	Hub
Broadcast Domain	Multiple Broadcast Domains	Single Broadcast Domains	Single Broadcast Domains	Single Broadcast Domains
Collision Domain	Multiple Collision Domains	Multiple Collision Domains	Single Collision Domains	Single Collision Domains

NEW QUESTION 1109

- (Exam Topic 5)

Which of the following is an advantage of dynamic routing?

- A. It can reroute connectivity in the event of failure.
- B. It is the simplest form of routing.
- C. The routes do not change.
- D. The setup and configuration are done manually.

Answer: A

NEW QUESTION 1114

- (Exam Topic 5)

A company wants to secure its WAPs from unauthorized access. Which of the following is the MOST secure wireless encryption method?

- A. SSID disable
- B. SNMPv3
- C. WEP
- D. WPA2

Answer: D

NEW QUESTION 1115

- (Exam Topic 5)

Which of the following is the reason why a company's network may contain a DHCP server?

- A. To assign IP addresses to devices on the network
- B. To convert IP addresses to fully qualified domain names
- C. To provide POP3 and IMAP email functionality
- D. To allow secure remote access

Answer: A

NEW QUESTION 1116

- (Exam Topic 5)

A technician has been tasked to set-up a managed switch. Which of the following will the technician need to accomplish this task?

- A. IP address
- B. Switch serial number
- C. VLAN tag
- D. Loopback plug

Answer: A

NEW QUESTION 1121

- (Exam Topic 5)

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 1123

- (Exam Topic 5)

Which of the following appliances creates and manages a large number of secure remote-access sessions, and also provides a high availability solution?

- A. Media converter
- B. Proxy server
- C. VPN concentrator
- D. Load balancer

Answer: C

NEW QUESTION 1125

- (Exam Topic 5)

A customer has not been using security on a wireless network and has recently received many attacks through this vector. Which of the following would be the MOST secure way to harden this wireless network?

- A. Disable the SSID
- B. WPA encryption
- C. VLAN implementation
- D. WEP encryption

Answer: B

NEW QUESTION 1126

- (Exam Topic 5)

A network administrator is tasked with blocking unwanted spam is being relayed by an internal email server. Which of the following is the FIRST step in preventing spam that is originating from bots on the network?

- A. Closing off port 25 on the firewall
- B. Closing off port 53 on the firewall
- C. Turning off the SMTP service on the email server
- D. Turning off the IMAP service on the email server

Answer: A

NEW QUESTION 1130

- (Exam Topic 5)

Which of the following BEST describes the difference between layer 2 switching and layer 2 routing?

- A. Switching moves packets between hosts on different subnets, and routing moves packets between hosts on the same subnet.
- B. Routing moves packets between hosts on different subnets, and switching moves packets between hosts on the same subnet.
- C. Both routing and switching move packets between hosts on the same subnet, but routing does so at a faster pace.
- D. Both routing and switching move packets between hosts on different subnets, but switching does so at a faster pace.

Answer: B

NEW QUESTION 1135

- (Exam Topic 5)

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

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

Answer: D

NEW QUESTION 1138

- (Exam Topic 5)

Which of the following can a technician use when installing a wireless network in a lounge to prevent inappropriate website images?

- A. Content filter
- B. VPN concentrator
- C. Load balancer
- D. Proxy server

Answer: A

NEW QUESTION 1142

- (Exam Topic 5)

A company wants to have a security zone to isolate traffic within the firewall. Which of the following could be used?

- A. VPN
- B. ACL
- C. DMZ
- D. VLAN

Answer: C

NEW QUESTION 1147

- (Exam Topic 5)

A network administrator needs to configure a port on the switch that will enable all packets on a particular switch to be monitored. Which of the following would BEST complete this objective?

- A. Traffic shaping
- B. MAC filtering
- C. Port mirroring
- D. VLAN trunking

Answer: C

NEW QUESTION 1149

- (Exam Topic 5)

After a technician has identified the problem and its impact, which of the following steps should be performed NEXT?

- A. Implement preventative measures.

- B. Establish a plan of action to resolve the problem.
- C. Establish a theory of probable cause.
- D. Implement the solution or escalate as necessary.

Answer: C

NEW QUESTION 1154

- (Exam Topic 5)

Which of the following monitoring devices are used only to recognize suspicious traffic from specific software?

- A. Signature based IPS
- B. Application based IDS
- C. Anomaly based IDS
- D. Application based IPS

Answer: B

NEW QUESTION 1157

- (Exam Topic 5)

Two WAPs are positioned with overlapping coverage, but seamless roaming across them is not working. Which of the following should be checked?

- A. WPA should be enabled
- B. PKI should be turned off
- C. WAP SSIDs are matching
- D. WAPs are transmitting on same channel

Answer: C

NEW QUESTION 1160

- (Exam Topic 5)

A customer's email server is not sending emails. Arrange the troubleshooting steps in the order the technician should perform them:

1	<input type="text"/>	Implement the solution
2	<input type="text"/>	Verify full system functionality
3	<input type="text"/>	Establish a theory of probable cause
4	<input type="text"/>	Determine if any recent changes have been made to the server
5	<input type="text"/>	Document findings, actions, and outcomes
6	<input type="text"/>	Establish a plan of action to resolve the problem
7	<input type="text"/>	Test the theory to determine cause
8	<input type="text"/>	Implement preventative measures

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

1	Determine if any recent changes have been made to the server	
2	Establish a theory of probable cause	
3	Test the theory to determine cause	
4	Establish a plan of action to resolve the problem	
5	Implement the solution	
6	Verify full system functionality	
7	Implement preventative measures	
8	Document findings, actions, and outcomes	

NEW QUESTION 1164

- (Exam Topic 5)

A technician is not getting a link light on two switches connected by a fiber cable. After the cable tests good, which of the following should the technician check NEXT?

- A. Open shorts
- B. Excessive DB loss
- C. TXRX reversed
- D. Split cables

Answer: C

NEW QUESTION 1165

- (Exam Topic 5)

A user is trying to connect to the wireless network in the office but is unable to establish a consistent connection. The computer alternates connecting between several similarly configured access points. Which of the following would be the BEST way to address this issues?

- A. Adjust the signal strength of the access points with minimal coverage overlap.
- B. Increase the pool in each of the access points to avoid running out of IPs.
- C. Configure each access point to use a different method of encryption than the others.
- D. Reconfigure each of the access points so that they broadcast different SSIDs.

Answer: A

NEW QUESTION 1167

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