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Exam Name: CompTIA Network+ Certification Exam

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Exam A

QUESTION 1

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

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

Which of the following standards can operate at either 20MHz or 40MHz channel spacing?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

A client's computer is unable to access any network resources. Which of the following utilities can a technician use to determine the IP address of the client's machine?

- A. ipconfig
- B. nslookup
- C. dig
- D. tracert

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

A user's computer is unable to access the Internet. Which of the following utilities can a technician use to determine if DNS is working?

- A. nbtstat
 - B. arp
 - C. nslookup
 - D. ipconfig
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Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

Which of the following can MOST likely cause intermittent connection problems with a CAT5 network cable?

- A. Cable has been looped too many times.
- B. Cable has a twist tie attached too close to the connector.
- C. Cable is too warm.
- D. Cable is run too close to a fluorescent light.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

On which of the following OSI model layers would a MAC address be used?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

Joe, 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. Baselineing

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 10

Which of the following TCP/IP model layers does the OSI model Presentation layer map to?

- A. Transport
- B. Internet
- C. Application
- D. Network Interface

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

Which of the following properties of DHCP would a technician use to ensure an IP address is not leased out from the active scope?

- A. Reservations
- B. Lease times
- C. Removing IPs from the active leases
- D. Configuring the DNS options

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

A network technician needs to configure a port on a switch to provide connectivity and electrical support to a WAP being installed in a warehouse. Which of the following features needs to be configured on the switch?

- A. STP
- B. PoE
- C. VTP trunking
- D. Port forwarding

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

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. Uptime requirements

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

Which of the following uses SSL encryption?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

Ann, a network technician, has been troubleshooting a connectivity problem in the LAN room. Ann has diagnosed the problem and implemented a solution. Which of the following would be the NEXT step?

- A. Test the theory
- B. Establish a plan of action
- C. Establish a theory
- D. Document findings

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

Spanning-Tree Protocol is used with which of the following network devices?

- A. Router
- B. NIC

- C. Switch
- D. DHCP server

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 19

In a SOHO environment, placing a VoIP unit on the outside edge of a LAN router enhances which of the following network optimization methods?

- A. Load balancing
- B. Quality of service
- C. Fault tolerance
- D. Traffic shaping

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

The network support team is constantly getting calls from users in a specific area of an office building. The users are able to connect to the office wireless network, but they sometimes disconnect or experience very slow download speeds. Which of the following is MOST likely the problem?

- A. Incorrect service set identifier
- B. Low signal strength or interference
- C. Incorrect encryption scheme
- D. Incorrect IP address or subnet mask

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

A technician wants to separate networks on a switch. Which of the following should be configured to allow this?

- A. VLAN

- B. Trunking
- C. Spanning tree
- D. Traffic filtering

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

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?

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- 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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

A technician needs multiple networks, high speeds, and redundancy on a system. Which of the following configurations should be considered for these requirements? (Select TWO).

- A. Routing table
- B. Next hop
- C. Port mirroring

- D. Port monitoring
- E. VLANs

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

During a disaster recovery test, several billing representatives need to be temporarily setup to take payments from customers. It has been determined that this will need to occur over a wireless network, with security being enforced where possible. Which of the following configurations should be used in this scenario?

- A. WPA2, SSID enabled, and 802.11n.

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- B. WEP, SSID enabled, and 802.11b.
- C. WEP, SSID disabled, and 802.11g.
- D. WPA2, SSID disabled, and 802.11a.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

Which of the following network access security methods ensures communication occurs over a secured, encrypted channel, even if the data uses the Internet?

- A. MAC filtering
- B. RAS
- C. SSL VPN
- D. L2TP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

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

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

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

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Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

A network administrator is responding to a statement of direction made by senior management to implement network protection that will inspect packets as they enter the network. Which of the following technologies would be used?

- A. Packet sniffer
- B. Stateless firewall
- C. Packet filter
- D. Stateful firewall

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

In contrast to earlier Wi-Fi speeds, which of the following BEST describes the antenna and channelization properties used in 802.11n?

- A. MIMO, DSSS
- B. MIMO, OFDM
- C. CSMA, DSSS
- D. CSMA, CDMA

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

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

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 35

A CAT5e network cable run needs to be installed over fluorescent lighting arrays in an office building. Which of the following cable types would be BEST suited for such an installation?

- A. UTP
- B. Plenum
- C. Coaxial
- D. STP

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

Which of the following defines a rack located in an office building between the main rack and other office equipment?

- A. DSU
- B. MDF
- C. CSU
- D. IDF

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

Which of the following connectors is usable in SFP modules?

- A. ST
- B. LC
- C. LX
- D. SX

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

A small office has created an annex in an adjacent office space just 20 feet (6 meters) away. A network administrator is assigned to provide connectivity between the existing office and the new office. Which of the following solutions provides the MOST security from third party tampering?

- A. CAT5e connection between offices via the patch panel located in building's communication closet.
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- B. CAT5e cable run through ceiling in the public space between offices.
- C. VPN between routers located in each office space.
- D. A WEP encrypted wireless bridge with directional antennae between offices.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

A technician is developing a shortcut sheet for the network to be able to assist in future troubleshooting scenarios. Which of the following should the network devices have to ease manageability efforts?

- A. MAC spoofing
- B. Dynamic IPs
- C. MAC filtering
- D. Static IPs

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

A user reports that several spots within the company's office have intermittent connectivity issues with the newly installed wireless network. There are several WAPs located around the office to provide a strong signal wherever the users are. Which of the following is the MOST likely cause of the problem?

- A. Incompatible network card
- B. Channel overlap

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- C. Latency
- D. WEP encryption

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 44

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 45

A customer is implementing a VoIP infrastructure using an existing network. The customer currently has all network devices on the same subnet and would like the phones to be powered without the use of an AC adapter. Which of the following features should be enabled and configured to allow for reliable performance of the VoIP system? (Select THREE).

- A. WEP
- B. PoE
- C. VLANs
- D. SSL VPN
- E. IDS
- F. QoS

Correct Answer: BCF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

A customer is having problems connecting to a wireless network in a shared office space. The customer can detect several other wireless network signals. All of the wireless networks have different SSIDs but several are using the same encryption type. Which of the following should be configured on the customer's wireless network to improve connectivity to the wireless network?

- A. Change the SSID to match other wireless networks for increased throughput.
- B. Change the encryption type to a different mechanism to avoid interference.
- C. Change the channel to a different channel than the other wireless networks.
- D. Change the WAP to a different manufacturer than the other wireless networks.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 47

Users at a remote site are unable to establish a VPN to the main office. At which of the following layers of the OSI model does the problem MOST likely reside?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 48

A network technician is setting up a wireless access point that would only allow a certain laptop to be able to access the WAP. By using ACL, which of the following would be filtered to ensure only the authorized laptop can access the WAP?

- A. NetBIOS name filtering
- B. IP address filtering

- C. MAC address filtering
- D. Computer name filtering

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

Which of the following is the common port used for IMAP?

- A. 25
- B. 53
- C. 143
- D. 443

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

A company has just installed a new network switch for an expanding department. The company is also piloting the use of a VoIP phone system for this department. Which of the following should be enabled on the new network switch?

- A. WINS
- B. QoS
- C. NAT
- D. DHCP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

Which of the following network protocols is used to resolve FQDNs to IP addresses?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 52

Which of the following network protocols is used for a secure command line interface for management of network devices?

- A. SSH
- B. TELNET
- C. IGMP
- D. HTTP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 53

Which of the following network protocols is used to transport email between servers?

- A. IMAP4
- B. POP3
- C. SNMP
- D. SMTP

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 54

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

suspects the laptop's wireless NIC has failed. The technician performs hardware diagnostics on the wireless NIC and discovers the hardware is working fine. Which of the following network troubleshooting methodology steps should the technician do NEXT?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

Ann, a technician, installs a new WAP and users are able to connect; however, users cannot access the Internet. Which of the following is the MOST likely cause of the problem?

- A. The signal strength has been degraded and latency is increasing hop count.
- B. An incorrect subnet mask has been entered in the WAP configuration.
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- C. The signal strength has been degraded and packets are being lost.
- D. Users have specified the wrong encryption type and routes are being rejected.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 56

An administrator is using a packet sniffer to try to determine what is causing the traffic on the network. The administrator sees a lot of packets on port 25. Which of the following traffic types is MOST likely using port 25?

- A. SMTP
- B. SSH
- C. DNS
- D. TELNET

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

Which of the following is the BEST way to prevent new users from connecting to a wireless access point, but still allow already connected users to continue to connect?

- A. Create a MAC filter containing the current users.
- B. Turn off SSID broadcast.
- C. Change the encryption type to AES 256-bit for current users.
- D. Reduce the signal strength to 0 percent.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 58

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 60

A network technician is concerned that a user is utilizing a company PC for file sharing and using a large amount of the bandwidth. Which of the following tools can be used to identify the IP and MAC address of the user's PC?

- A. System log
- B. History log
- C. Network sniffer
- D. Nslookup

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 61

A network technician is concerned that an attacker is attempting to penetrate the network, and wants to set a rule on the firewall to prevent the attacker from learning which IP addresses are valid on the network. Which of the following protocols needs to be denied?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 62

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 63

The ISP needs to terminate the WAN connection. The connection should be located in the network server room where the company LAN equipment resides. Which of the following identifies the location?

- A. Smart jack
- B. MDF
- C. VPN
- D. 66 block

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 64

A recent flood in the office caused a lot of equipment to be damaged and the manager of the IT department would like a way to prevent such an incident in the future. Which of the following is the BEST way to mitigate such an equipment failure?

- A. Reduce the power input on the replacement servers.
- B. Cover the servers with plastic tarps.
- C. Purchase twice as many servers to create high availability clusters.
- D. Transfer the replacement servers offsite to a data center.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 65

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. Honeypot

- C. DMZ
- D. Honeynet

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 66

Which of the following is the FASTEST Ethernet technology?

- A. 10GBaseSR
- B. 10BaseT
- C. 100BaseFX
- D. 1000BaseT

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 67

A Chief Executive Officer (CEO) decided that only a limited number of authorized company workstations will be able to connect to the Internet. Which of the following would BEST accomplish this goal?

- A. Use content filtering
- B. Install and configure IDS
- C. Enable MAC address filtering
- D. Enable RAS on the network firewall

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 68

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?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 69

Companies trying to cut down on constant documentation of IP addresses could use which of the following?

- A. Longer lease times
- B. More reservations
- C. Larger scopes
- D. Dynamic IP addressing

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 70

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 71

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 72

In order to discover the currently unknown IP address of the next-hop router, a network administrator would begin by using which of the following tools?

- A. NMAP
- B. ping
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- C. nslookup
- D. tracert

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 73

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 74

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 75

Which of the following DHCP properties defines the size of the pool of available IP addresses?

- A. Options
- B. Scope
- C. Leases
- D. Reservations

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 76

Which of the following supports faster wireless broadband speeds?

- A. Satellite
- B. WiMAX
- C. ISDN
- D. OC-3

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 77

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.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 78

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-PEAP
- B. MAC ACL
- C. EAP-TTLS
- D. MS-CHAPv2

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 79

A network administrator is implementing a wireless honeypot to detect wireless breach attempts. The honeypot must implement weak encryption to lure malicious users into easily breaking into the network. Which of the following should the network administrator implement on the WAP?

- A. WPA
- B. WPA2
- C. WEP
- D. VPN

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 80

Which of the following protocols works at the LOWEST layer of the OSI model?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 81

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?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 82

A network administrator needs to implement a monitoring tool and be able to send log information to a server and receive log information from other clients. Which of the following should be implemented? (Select TWO).

- A. SNMP

- B. Network sniffer
- C. Syslog
- D. System log
- E. History log

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 83

Which of the following network appliances will only detect and not prevent malicious network activity?

- A. IDS
- B. Network sniffer
- C. IPS
- D. Firewall

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 84

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 85

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
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- B. Traffic analysis
- C. Syslog
- D. ICMP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 86

An employee connects to a work computer from home via the built-in Windows remote desktop connection. Which of the following is MOST likely being used to establish the connection?

- A. RDP
- B. RTP
- C. RIP
- D. RAS

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 87

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 88

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

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 89

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
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Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 90

Which of the following WAN technologies has the HIGHEST latency?

- A. ADSL
- B. LTE
- C. Satellite
- D. WiMAX

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 91

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 92

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 93

Which of the following technologies can cause interference for 802.11g?

- A. RADAR
- B. 802.11a
- C. IrDA
- D. Bluetooth

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 94

A technician has low signal strength connecting two wireless bridges. Which of the following could be the problem?

- A. Low PoE wattage
- B. Opposing antenna polarizations
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- C. Short distance between antennas
- D. WPA 2 encryption

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 95

Which of the following reduces the deployment cost of a wireless LAN?

- A. WPA
- B. 802.1x
- C. MIMO
- D. PoE

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 96

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

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 97

A network administrator suspects a broadcast storm is causing performance issues on the network. Which of the following would be used to verify this situation?

- A. Environmental monitor
- B. Multimeter
- C. Toner probe
- D. Protocol analyzer

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 98

Users are reporting that external web pages load slowly. The network administrator determines that the Internet connection is saturated. Which of the following is BEST used to decrease the impact of web surfing?

- A. Caching
- B. Load balancing
- C. Port filtering
- D. Traffic analyzer

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 99

Discover, Offer, Request, and Acknowledge are the steps for which of the following protocols?

- A. DNS
- B. DOS
- C. DHCP
- D. DSL

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 100

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

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 101

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. tracet
- C. nbtstat
- D. nslookup

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 102

Which of the following would be the BEST solution for an IDS to monitor known attacks?

- A. Host-based
- B. Signature-based
- C. Network-based
- D. Behavior-based

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 103

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

- A. Session
 - B. Transport
 - C. Presentation
 - D. Application
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Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 104

Users report that an internal file server is inaccessible. Of the following commands, which would be the MOST useful in determining network-layer connectivity?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 105

Which of the following uses port 23 by default?

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

D. SNMP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 106

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 107

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

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 108

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 109

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 110

After a new user moves furniture into a cubicle, the computer does not connect to the network any longer. Which of the following would be the MOST likely reason? (Select TWO).

- A. Bad Ethernet switch port
- B. TX/RX reversed
- C. Bad connectors
- D. Bad patch cable
- E. Mismatched MTU

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 111

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 112

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

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 113

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 114

Assigning the same IP address to a network device is which of the following?

- A. SSID
- B. Scope
- C. Reservation
- D. Lease

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 115

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 116

Which of the following 802.11 standards transmits the signals the GREATEST distance?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 117

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

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 118

Which of the following DNS records is used to identify a domain's SMTP server?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 119

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

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

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 120

Which of the following protocols is MOST commonly used for the transfer of router configuration files?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 121

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

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

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Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 122

Which of the following security methods is used to attract users attempting to gain unauthorized access to various systems within a single network?

- A. Network based IDS
- B. Firewall
- C. Network based IPS
- D. Honeynet

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 123

Some visitors are unable to access the wireless network. The network's wireless infrastructure is comprised of three different buildings with the configurations listed below. Wireless network in Building A and C is used exclusively for internal employees and Building B is used for visitors and requires no additional configuration on their devices. Which of the following settings would need to be modified to provide wireless access to all visitors?

Building A	Building B	Building C
Channel: 2	Channel: 6	Channel: 11
Encryption: WPA2	Encryption: WPA2	Encryption: WPA2

- A. Encryption set to Open in all Buildings
- B. Encryption set to Open in Building B
- C. Encryption set to WEP in Building B
- D. Channel set to 11 in Building B

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 124

Some employees are unable to maintain a wireless network connection. The network's wireless infrastructure is comprised of three different buildings with the configurations listed below. Wireless network in Building A and C is used exclusively for internal employees and Building B is used for visitors and requires no additional configuration on their devices. Which of the following settings would need to be modified to provide the BEST wireless experience for all employees as they move between buildings?

Building A	Building B	Building C
Channel: 1	Channel: 6	Channel: 11
Encryption: WPA2 SSID.	Encryption: Open CorpSSID.	Encryption: WPA2 GuestSSID. Sales

- A. Change Channel in Building B to 7
- B. Change Encryption in Building B to match A and C
- C. Change Channel in Building C to 1
- D. Change SSID in Building C to match Building A

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 125

Which of the following port numbers is used for SNMP?

- A. 61
- B. 151
- C. 161
- D. 1611

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 126

A technician has been given the task to install a wireless network in a user's home. Which of the following should the technician consider when implementing the network? (Select TWO).

- A. That there is strong encryption enabled and configured on the access point.
- B. The user's home network has a correctly completed WHOIS entry.
- C. The access point is broadcasting the SSID based upon manufacturer's standards.
- D. There are no conflicts of channels in use by neighboring wireless networks.
- E. There are redundant internal DNS names set in the access point's settings.
- F. That the access point's MAC address is properly set in its configuration settings.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 127

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 128

Which of the following wireless technologies only uses the 5GHz spectrum but reaches a theoretical throughput of only 54Mbps?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 129

Which of the following is the definition of a DNS server?

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- A. Hosts proprietary business applications
- B. Translates FQDN's to IP addresses
- C. Provides network IDS/IPS security
- D. Assigns IP addresses to network devices

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 130

Which of the following features can BEST be used to facilitate authorized remote access to a network?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 131

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

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 132

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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 133

Which of the following is a Class A IP address?

- A. 10.4.0.1
- B. 169.254.0.1
- C. 192.168.0.1
- D. 254.200.0.1

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 134

A network where all traffic feeds through a centralized gateway uses which of the following topologies?

- A. Peer-to-peer
- B. Ring
- C. Bus
- D. Star

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 135

A technician working for a company with a wireless network named WirelessA notices a second wireless network named WirelessB. WirelessB is MOST likely a:

- A. man-in-the-middle attack.
- B. rogue access point.
- C. evil twin.
- D. packet sniffer.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 136

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 137

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 138

Which of the following is the Telco end of a T1 demarc?

- A. Smart jack
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- B. Network tap
- C. Proxy server
- D. IDF

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 139

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 140

Which of the following WAN technologies uses an analog phone line to transmit data?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 141

In order to limit the number of dynamic addresses of hosts on a network, which of the following can be implemented?

- A. Scope options
- B. Leases
- C. Reservations
- D. DNS suffixes

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 142

Users report that they are unable to access any external websites. The local intranet is not affected. A network technician has isolated the problem to a Linux-based server. Which of the following commands will enable the technician to view DNS information on the Linux-based server?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 143

A small business owner is setting up a SOHO office. The business owner needs one device that will allow for Internet access, trunk VLANs, translate multiple private IP addresses into public IP addresses, and filter packets. Which of the following network devices will allow for all functions?

- A. A VPN concentrator
- B. A switch
- C. A router
- D. A firewall

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 144

A Linux-based workstation is unable to connect to an IP printer on the same network segment. The printer IP address settings have been verified. How would a network technician verify IP address settings on the Linux-based workstation?

- A. Run the dig command on the workstation.
- B. Run the nslookup command on the workstation.
- C. Run the ipconfig command on the workstation.
- D. Run the ifconfig command on the workstation.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 145

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 146

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
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- D. Crimper
- E. Cable tester
- F. TDR

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 147

A user's workstation is experiencing multiple errors when trying to open programs. Which of the following log files should the technician review to assist in troubleshooting these errors?

- A. History Log
- B. Application Log
- C. System Log
- D. Security Log

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 148

802.11n can operate at which of the following frequencies? (Select TWO).

- A. 2.4Mhz
- B. 2.5Mhz
- C. 5Mhz
- D. 2.4Ghz
- E. 2.5Ghz
- F. 5Ghz

Correct Answer: DF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 149

Which of the following connector types are used in terminating singlemode fiber cables? (Select TWO).

- A. LC
- B. F-connector
- C. DB-9
- D. BNC
- E. RJ-11
- F. SC

Correct Answer: AF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 150

Which of the following cable types supports the FURTHEST distance when connecting various MDFs?

- A. Multimode
- B. UTP
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- C. Singlemode
- D. CAT6

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 151

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 152

Users have been stating that they need to logon to too many applications and web apps with different credentials that use different rule sets. Which of the following would BEST address these concerns?

- A. Alter the domain account login policies to reflect the most common application rule sets.
- B. Ensure that the user accounts are properly configured in domain services.
- C. Implement a software solution that facilitates single sign-on authentication.
- D. Increase the time between mandatory password changes by a factor of three.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 153

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 154

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

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Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 155

Ann, a client, shares half of a rectangular floor plan with another company and wishes to set up a secure wireless network. The installed antenna limits the signal to her half of the floor. Through analysis, the frequency and channels of surrounding wireless networks have been determined and configuration changes made accordingly. Which of the following would be the NEXT step in setting up this secure wireless network?

- A. Decrease signal strength on the antenna
- B. Change the wireless channel on the WAP
- C. Change the device placement to further obfuscate the signal

D. Set up encryption on the WAP and clients

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 156

A small office client is requesting a network redesign. Both wired and wireless devices must connect to the network. All of the wireless devices can communicate using the latest standards. The building has a long courtyard in the middle with reinforced walls, which extends up through all the floors. The distance from the switch to the furthest drop is 88 meters. Which of the following is the correct network redesign choice?

- A. Fiber optic cabling is necessary due to distance limitations.
- B. The wireless network should be 802.11b due to equipment limitations.
- C. One WAP will be sufficient to provide wireless coverage to the floor.
- D. The wired network should be run with at least CAT6 cabling.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 157

An administrator needs to open ports in the firewall to support both major FTP transfer modes. Which of the following default ports was MOST likely opened? (Select TWO)

- A. 20
- B. 21
- C. 22
- D. 23
- E. 25
- F. 53

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 158

Which of the following allows an administrator to reference performance and configuration information if there is a problem on the network?

- A. Wire schemes
- B. Change management
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- C. Network diagrams
- D. System baselines

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 159

Which of the following IP address/subnet mask combinations represent a broadcast address? (Select TWO).

- A. 200.200.100.0/28
- B. 200.200.100.32/27
- C. 200.200.100.63/27
- D. 200.200.100.79/27
- E. 200.200.100.95/27
- F. 200.200.100.254/30

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 160

Which of the following networking devices can exist at several layers of the OSI model at the same time? (Select TWO).

- A. Switch
- B. Cable
- C. Repeater
- D. Router
- E. Bridge
- F. Hub

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 161

Which of the following is a path vector routing protocol?

- A. RIP
- B. EIGRP
- C. ISIS
- D. OSPF
- E. BGP

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 162

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

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 163

Which of the following devices is utilized to ensure traffic does not become congested while traveling over redundant links?

- A. Access control list
- B. Load balancer
- C. Content filter
- D. Proxy server

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 164

Which of the following devices can be utilized to monitor and block websites accessible by a company?

- A. WINS server
- B. DNS server
- C. Content filter
- D. Reverse proxy

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 165

The network interface layer of the TCP/IP model corresponds with which of the following layers of the OSI model? (Select TWO).

- A. Transport layer
- B. Network layer
- C. Session layer
- D. Physical layer
- E. Presentation layer
- F. Data link layer

Correct Answer: DF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 166

Which of the following BEST describes the definition of DHCP?

- A. DHCP is utilized to dynamically lease IP addresses to hosts.
- B. DHCP is utilized to statically lease IP address to hosts.
- C. DHCP is utilized to permanently lease IP address dynamically to hosts.

D. DHCP is utilized to permanently lease IP address statically to hosts.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 167

Multiple servers' IP addresses fall within the DHCP scope assigned by the administrator. Which of the following should be implemented to ensure these static IP addresses are not assigned to workstations?

- A. The administrator should create exclusions for the workstations IP addresses.
- B. The administrator should change the servers to utilize DHCP to obtain IP addresses.
- C. The administrator should change the workstations to utilize static IP addresses.
- D. The administrator should create exclusions for the servers IP addresses.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 168

The network administrator has been tasked to create a network segment where resources can be placed for public web access. Which of the following should be implemented?

- A. DMZ
- B. Honeynet
- C. PAT
- D. Port security

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 169

A network administrator has been tasked to deploy a new WAP in the lobby where there is no power outlet. Which of the following options would allow the network administrator to ensure the WAP is deployed correctly?

- A. QoS
- B. Install 802.11n WAP
- C. PoE
- D. Parabolic antenna

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 170

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 171

A technician is reviewing the following company diagram to determine proper connectivity

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settings:

Device	Connection Type	Distance
ServerA	CAT6e	380ft
LaptopB	802.11g	310ft
PC1	CAT5	300ft
LaptopC	802.11n	100ft
ServerE	Single Mode	500ft

Which of the following device configurations is out of specifications?

- A. LaptopC
- B. ServerE
- C. LaptopB
- D. ServerA
- E. PC1

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 172

A technician is reviewing the following aggregated information on a server to determine the cause of a user's connection problem:

Facility	Severity	Mnemonic	Message
FW1	4	FPD	Packet discarded
AP2	7	AUTH	User disassociated
SW1	7	PUPD	Port changed from up to down

Which of the following is the technician reviewing?

- A. Syslog server logs
- B. Application logs
- C. Network sniffer logs
- D. SNMPv2 queries

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 173

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

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Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 174

A technician has been dispatched to investigate an issue where several users in the same aisle have stated they have had no network connection for over an hour. When the technician gets there, the network seems to be up and running. Which of the following should the technician do NEXT?

- A. Ask the users for more information, such as which applications were not functioning.
- B. Power-cycle the switch that the users share to clear out cached DNS records.
- C. Escalate the issue to the network administrator to have their domain credentials reset.
- D. Close and document the service call, as there was no actual issue affecting the users.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 175

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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 176

A company is looking for the simplest solution to help prioritize VoIP traffic on its congested network. Which of the following would BEST accomplish this?

- A. MPLS
- B. Caching engines
- C. QoS
- D. Load balancing

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 177

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 178

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 179

Which of the following wireless standards would BEST allow a company to utilize new and old devices on the 5GHz spectrum while allowing for the highest possible speeds?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 180

A technician has received a trouble ticket from a user who has intermittent wireless access. Moving the computer farther from the WAP results in a more stable connection. Which of the following is MOST likely the cause of this instability?

- A. Wrong encryption type
- B. SSID mismatch
- C. Signal bounce
- D. Incorrect channel

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 181

Which of the following is the MAXIMUM potential speed of CAT5e UTP cable?

- A. 10BaseT
- B. 100BaseT
- C. 100BaseFX
- D. 1000BaseT

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Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 182

A technician sees suspicious traffic coming from a computer connected to a WAP. Which of the following can be used to stop this traffic while troubleshooting the problem?

- A. tracert
- B. QoS
- C. ipconfig
- D. MAC filtering

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 183

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 184

Which of the following remote access types requires a certificate for connectivity?

- A. SSH
- B. PPP

- C. HTTPS
- D. WEP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 185

A network administrator is deploying a new wireless network with over 50 thin WAPs and needs to ensure all WAPs use consistent firmware and settings. Which of the following methods provides this functionality?

- A. Use WAP auto-configuration
- B. Use a wireless controller
- C. Use PXE to load and track WAPs
- D. Use DHCP scope options

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 186

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

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 187

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 188

A technician is troubleshooting Internet connectivity for a PC. Which of the following is MOST likely the reason for Internet connectivity issues upon inspecting the routing table?

IPv4 Route Table

Active Routes:

Network Destination	Netmask	Gateway	Interface	Metric
127.0.0.0	255.0.0.0	On-link	127.0.0.1	306
127.0.0.1	255.255.255.255	On-link	127.0.0.1	306
127.255.255.255	255.255.255.255	On-link	127.0.0.1	306
172.16.10.0	255.255.0.0	On-link	172.16.10.101	261
172.16.10.101	255.255.255.255	On-link	172.16.10.101	261
172.30.255.255	255.255.255.255	On-link	172.16.10.101	261
224.0.0.0	240.0.0.0	On-link	127.0.0.1	306
224.0.0.0	240.0.0.0	On-link	172.16.10.101	261
255.255.255.255	255.255.255.255	On-link	127.0.0.1	306
255.255.255.255	255.255.255.255	On-link	172.16.10.101	261

- A. The router should be listed as 224.0.0.1
- B. The NIC is set to the wrong subnet mask
- C. The route of last resort is missing
- D. Loopback traffic is weighted higher than NIC interface traffic

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 189

Compare the settings below to determine which of the following issues is preventing the user from connecting to a wireless network.

API (a/b/g/n)

UserPC Wireless-G

SSID: iCorpOne

SSID: icorpone

WEP Key: 337D1FAB10

WEP Key: 337d1fab10

Index: 1

Index: 1

Mode: Mixed

Mode: 802.11G

Channel: 1

Channel: Auto

Which of the following settings is incorrect on the client?

- A. The mode is incorrect
- B. SSID Mismatch
- C. Incorrect WEP Key
- D. Channel is set incorrectly

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 190

A technician replaces a failed router in an office with the same model unit using the default settings. After the installation, the technician reboots all of the PCs and servers. Upon reboot some of the PCs are receiving IP addresses on the same subnet as the new router; other PCs are receiving addresses on the same subnet as the servers. Which of the following most likely describes the issue?

- A. The DHCP lease pool was not large enough
- B. DHCP lease times were set too low
- C. The router is not the only DHCP server
- D. DHCP was not enabled on the replacement router

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 191

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 192

Which of the following wireless standards uses a block encryption cipher rather than a stream cipher?

- A. WPA2-CCMP
- B. WPA
- C. WEP
- D. WPA2-TKIP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 193

Which of the following is the OSI layer that handles file compression such as LZMA or DEFLATE?

- A. Layer 3
- B. Layer 5
- C. Layer 6
- D. Layer 7

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 194

A network administrator is performing a penetration test on the WPA2 wireless network. Which of the following can be used to find the key?

- A. DoS
- B. Buffer overflow
- C. Dictionary file
- D. SQL injection

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 195

Which of the following can be used to compromise a WPA encrypted wireless network when the rainbow table does not contain the key?

- A. Evil twin
- B. War chalking
- C. Buffer overflow
- D. Virus

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 196

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

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the following would MOST likely be installed?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 197

A vendor releases an emergency patch that fixes an exploit on their network devices. The network administrator needs to quickly identify the scope of the impact to the network. Which of the following should have been implemented?

- A. Change management
- B. Asset management
- C. Network sniffer
- D. System logs

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 198

Which of the following can be described as a DoS attack?

- A. Disabling a specific system and making it unavailable to users
- B. Implementing a keylogger
- C. Intercepting a packet and decrypting the contents
- D. Communicating with employees to get company information

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 199

A user is connecting to the Internet at an airport through an ad-hoc connection. Which of the following is the MOST likely security threat?

- A. Man-in-the-middle
- B. Social engineering
- C. Phishing
- D. DoS

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 200

An application server is placed on the network and the intended application is not working correctly. Which of the following could be used to make sure sessions are being opened properly?

- A. Antivirus scanner
- B. IDS
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- C. Packet sniffer
- D. Toner probe

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 201

Which of the following provides secure access to a network device?

- A. SNMPv2
- B. FTP
- C. RSH
- D. SSH

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 202

Which of the following uses distance vector algorithms to determine the BEST network route to a destination address?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 203

Which of the following uses classless subnet masks across a network?

- A. Subnetting
- B. CIDR
- C. Supernetting
- D. Summarization

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 204

Enterprise IP routing policy is MOST clearly depicted in which of the following configuration management documents?

- A. Logical network diagrams
- B. Physical network diagrams
- C. Wiring schematics
- D. Group security role assignments

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 205

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While preparing to replace an old CAT3 cable with a CAT6 cable to implement VoIP, a facilities employee mistakenly disconnects the entire patch panel, including valid wiring to live workstations. Which of the following should an administrator use in order to connect those ports FIRST?

- A. Toner
- B. Multimeter
- C. Reflectometer
- D. Cable tester

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 206

Which of the following methods would be implemented to correct a network slowdown caused by excessive video streaming?

- A. Traffic shaping
- B. Proxy server
- C. VPN concentrator
- D. High availability

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 207

While working on a PC, a technician notices 0.0.0.0 in the routing table. Which of the following does this indicate?

- A. It is the default route.
- B. This is the address for the DHCP server.
- C. The PC has not been assigned an IP address.
- D. The firewall is down.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 208

Users inform an administrator that the network is slow. The administrator notices the bulk of the traffic is SIP and RTP traffic. Which of the following could the administrator do to help BEST alleviate the traffic congestion for the users?

- A. Create an ACL on the switches and routers that are dropping SIP and RTP packets.
- B. Create a QoS policy prioritizing users over RTP and SIP traffic.
- C. Create another VLAN for SIP and RTP traffic.
- D. Create a rule to throttle SIP and RTP to 10Kbps or less.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 209

If a NIC does not have a link light, there is a failure at which of the following OSI layers?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 210

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 211

Which of the following technologies is used on cellular networks?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 212

Which of the following technologies allows multiple staff members to connect back to a centralized office?

- A. Peer to Peer
- B. VPN
- C. PKI
- D. VLAN

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 213

Which of the following is the MOST secure way to prevent malicious changes to a firewall?

- A. SNMPv2 access only
- B. TELNET access only
- C. SSH access only
- D. Console access only

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 214

Which of the following allows a malicious attacker to view network traffic if the attacker is on the same network segment as Joe, an administrator?

- A. DoS attack
- B. Man-in-the-middle attack
- C. Smurf attack
- D. Xmas attack

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 215

Which of the following OSI layers allows users to access network services such as file sharing?

- A. Layer 1
- B. Layer 3
- C. Layer 4
- D. Layer 7

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 216

Which of the following can function in an unsecure mode?

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

D. SCP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 217

Which of the following is used to register and resolve IP addresses with their plain language equivalents?

- A. Proxy server
- B. DNS server
- C. Brouter equipment
- D. DHCP server

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 218

An administrator determines there are an excessive number of packets being sent to a web server repeatedly by a small number of external IP addresses. This is an example of which of the following attacks?

- A. DDoS
- B. Viruses
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- C. Worms
- D. Man-in-the-middle

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 219

Which of the following features will a firewall MOST likely use to detect and prevent malicious traffic on the network?

- A. Zone filtering

- B. Signature identification
- C. Port identification
- D. Port scanner

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 220

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

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 221

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

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 222

Which of the following commands will provide an administrator with the number of hops a packet takes from host to host?

- A. nslookup

- B. ping
- C. traceroute
- D. route

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 223

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

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 224

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

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 225

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

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 226

Which of the following switch features allows for both incoming and outgoing data across physical ports at the same time?

- A. Burst-frame
- B. Full-duplex
- C. Half-duplex
- D. VoIP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 227

Which of the following is a common physical network topology?

- A. Cross-over
- B. Loopback
- C. Star
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- D. Straight

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 228

PKI is a method of user authentication which uses which of the following?

- A. Various router commands
- B. Access control lists
- C. Certificate services
- D. A RADIUS server

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 229

A technician has a network with a mix of newer and older equipment. Which of the following settings would dynamically configure whether to use full or half duplex?

- A. Transmission speed
- B. Frequency
- C. Auto-negotiate
- D. Distance

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 230

An administrator needs to install a WAP in a location where there is no electrical wiring. Which of the following should the administrator use to complete a successful installation?

- A. Coaxial
- B. Wireless bridge
- C. PoE
- D. Multimode fiber

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 231

Which of the following is always true when a router selects a destination?

- A. The default gateway is selected over any other static or dynamic route.
- B. The shortest route is always selected.
- C. The most specific route is selected over the default gateway.
- D. A dynamic route is selected over a directly attached network.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 232

A proxy server would MOST likely be installed to provide which of the following functions? (Select

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TWO).

- A. Combined DNS and DHCP hosting
- B. Encryption
- C. Content filtering
- D. Fault tolerance
- E. Website caching

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 233

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 234

Drag and Drop Question

Drag and drop the fiber cable connection types to the appropriate image.

FC LC (single) LC (duplex) SC ST

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

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:



QUESTION 235

An administrator notices SMTP traffic is being blocked by the company firewall. Which of the following ports should be opened?

- A. 25
- B. 53
- C. 110
- D. 443

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 236

Which of the following network topologies would be separated into two networks if a client in the middle is removed or the cable is cut?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 237

Which of the following is an example of a Class C address?

- A. 10.19.0.79
- B. 127.34.8.197
- C. 176.96.1.222
- D. 192.168.1.105

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 238

Drag and Drop Question

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.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

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- 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

QUESTION 239

Drag and Drop Question

GigSwitch1 is currently configured with a speed of 100 and Duplex is set to Auto on all interfaces. Interface 2 will be connected to GigSwitch2 which is used for all departments. Interface 1 will be used for HR traffic only.

GigSwitch1 needs to be configured with the following parameters:

- * Configure the necessary protocol to prevent switching loops
- * Configure GigSwitch1 with a /24 IP address for management
- * Traffic across Interface 1 needs to be forced to accept and receive up to 100Mbps data at the same time
- * Traffic across Interface 2 needs to be forced to use Gigabit speeds and maximum performance

Drag and drop the appropriate configurations to their corresponding requirements. All placeholders must be filled. Not all configurations will be used.

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The interface consists of three columns: **Global Switch Configuration**, **Interface 1**, and **Interface 2**. Each column has two empty boxes labeled '1' and '2'. Below these are various configuration options as buttons:

- Global Switch Configuration:** 100/Full, 1000/Full, 1000/Auto, 100/Auto, Auto/Full, Auto/Half.
- Interface 1:** IP Address 192.168.1.1 255.255.255.240, VLAN 10 HR, VLAN 20 Sales, VLAN 30 OPS.
- Interface 2:** VLAN trunking/multiplexing, Enable STP, Enable AAA, Enable SNMPv3.

A.

- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

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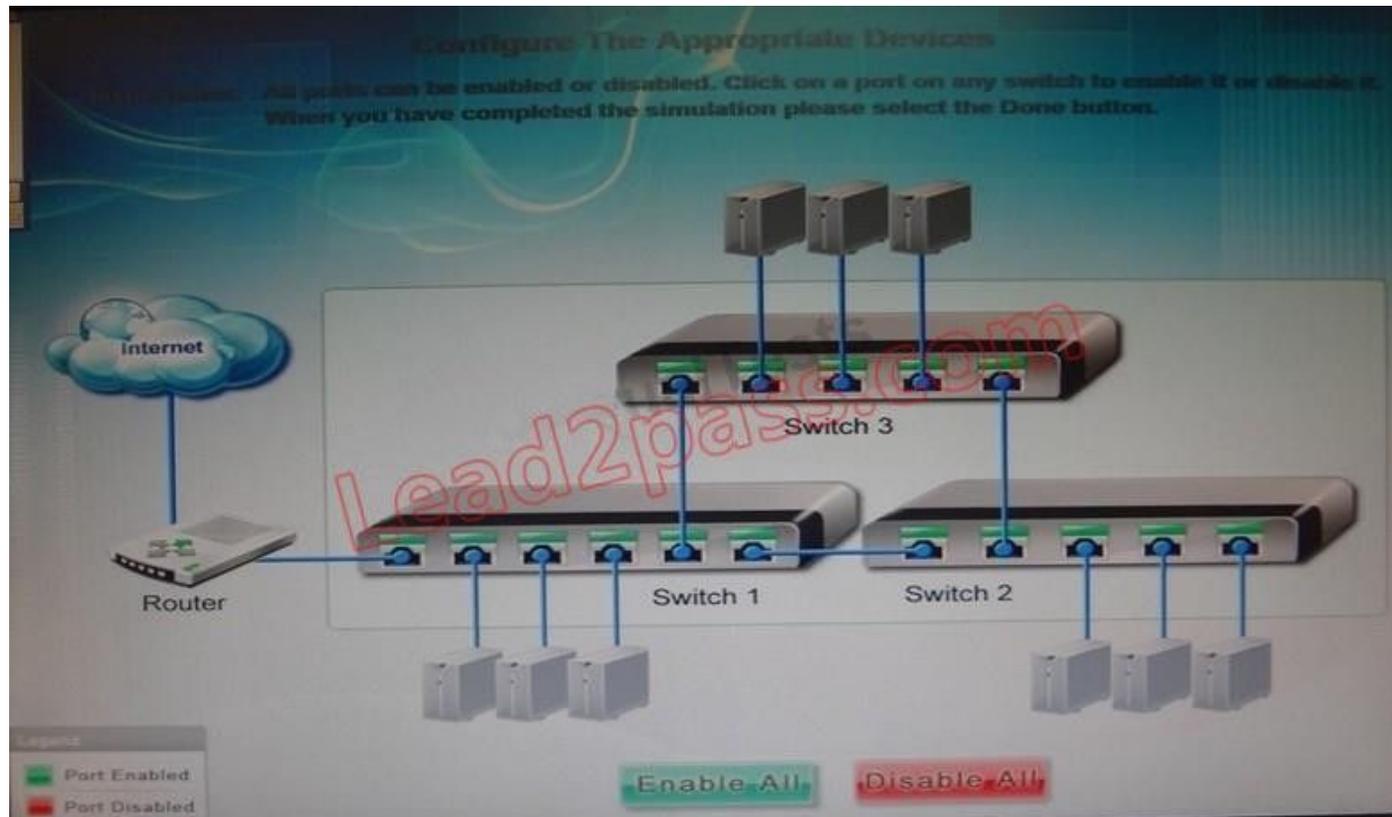
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The image shows a network configuration interface with three main sections: Global Switch Configuration, Interface 1, and Interface 2. Each section contains several configuration options represented by buttons.

Global Switch Configuration	Interface 1	Interface 2
1 IP Address 192.168.1.1 255.255.255.0	1 VLAN 10 HR	1 VLAN trunking/ multiplexing
2 Enable STP	2 100/Full	2 1000/Full
100/Auto	IP Address 192.168.1.1 255.255.255.240	Enable AAA
Auto/Full	VLAN 20 Sales	Enable SNMPv3
Auto/Half	VLAN 30 OPS	
1000/Auto		

QUESTION 240

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



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

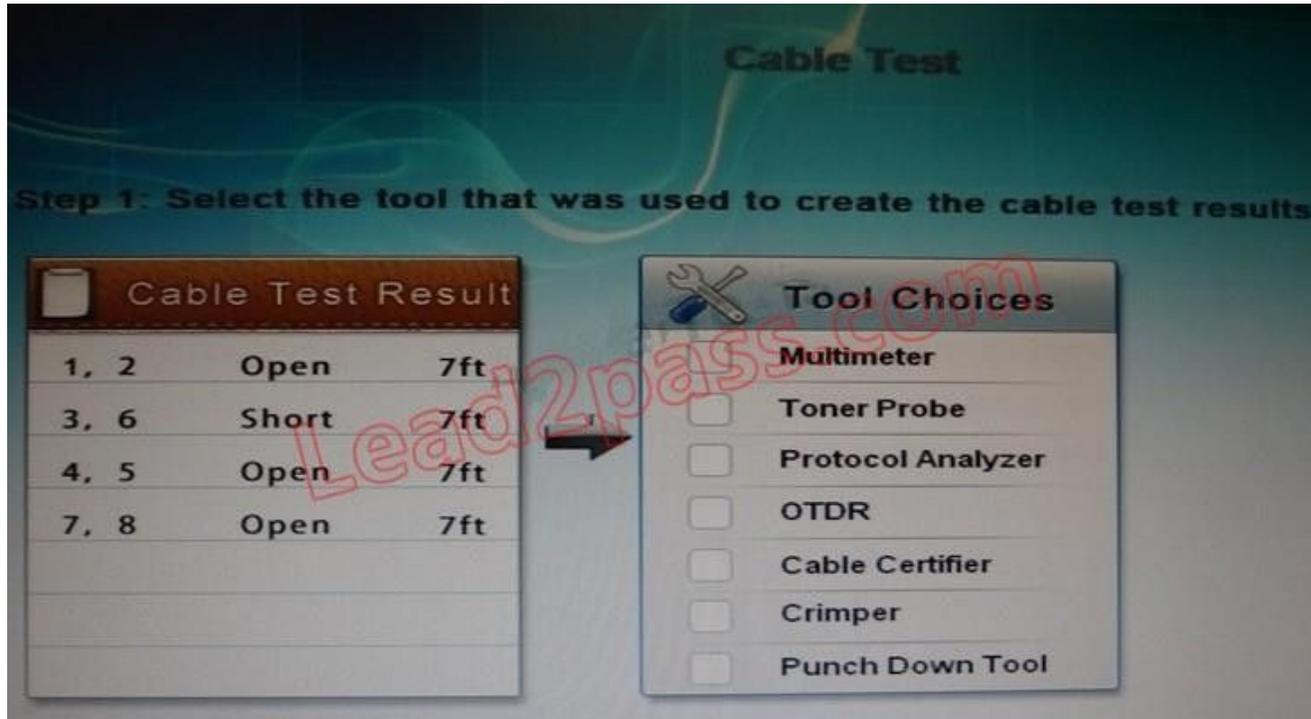
Correct Answer:
Section: (none)
Explanation

Explanation/Reference:
Answer: Pending

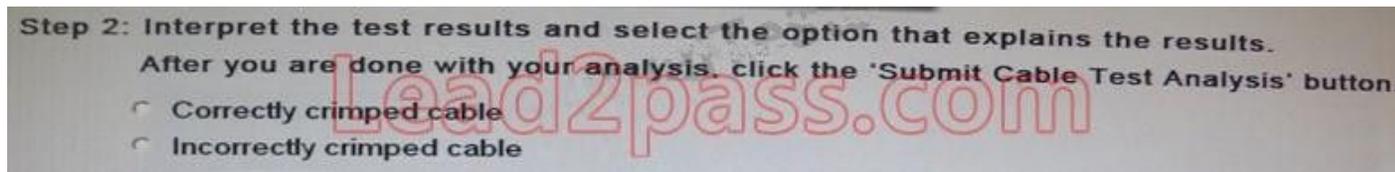
QUESTION 241

You have been tasked with testing a CAT5 cable. A summary of the test results can be found on the screen.

Step 1: Select the tool that was used to create the cable test results. Step 2: Interpret the best results and select the options that explains the results.



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

Correct Answer:

Section: (none)

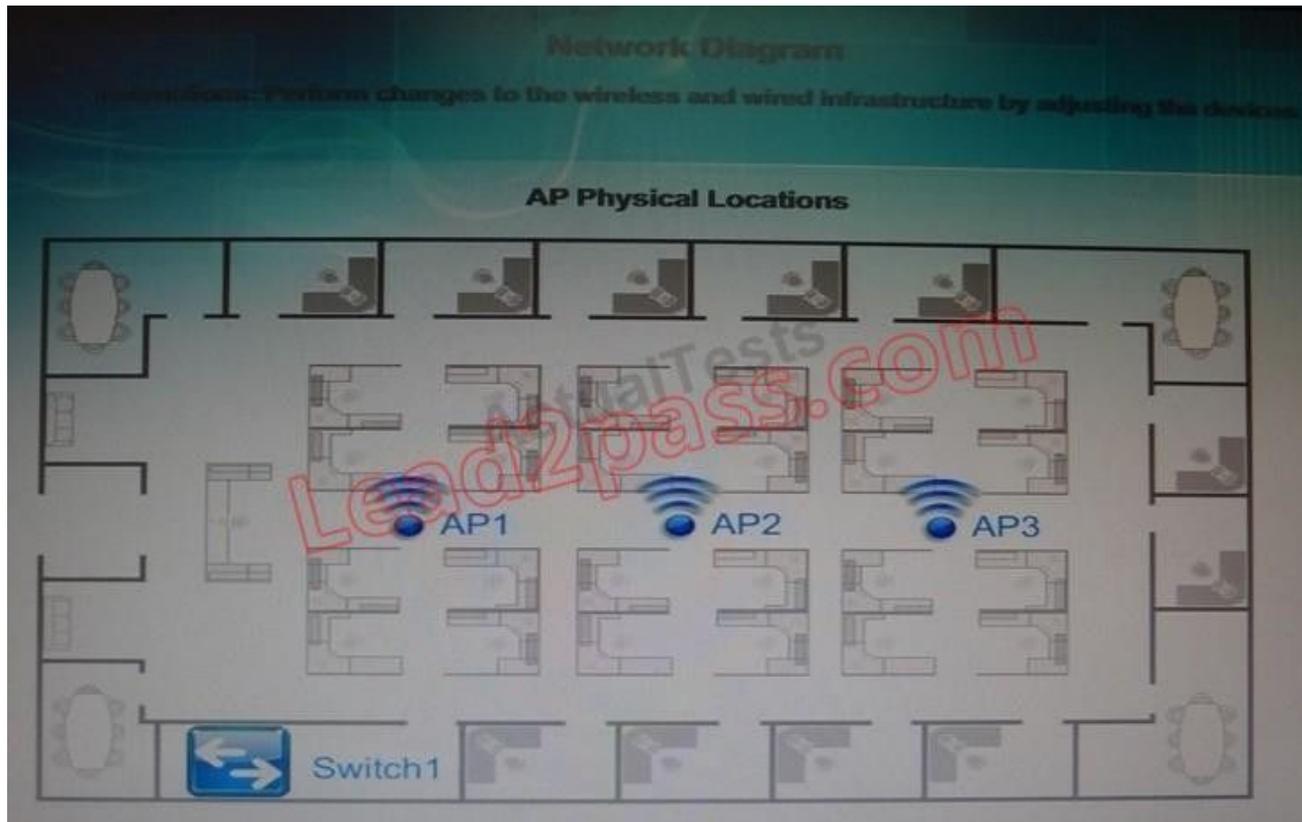
Explanation

Explanation/Reference:

Answer: Pending

QUESTION 242

Wireless network users recently began experiencing speed and performance issues after access point 2 (AP2) was replaced due to faulty hardware. The original network was installed according to a consultant's specifications and has always worked without a problem. You a network technician, have been tasked with evaluating the situation and resolving the issues to improve both performance and connectivity. Refer to the following diagram and perform any Necessary changes to the wireless and wired infrastructure by adjusting devices. Note: Adjust the LEAST number of devices needed to fix the issue all blue icons in the image are clickable.



Wireless AP Configuration Settings

Basic Configuration

Access Point Name:

IP Address: /

Gateway:

SSID:

SSID Broadcast: Yes No

Wireless

Mode:

Channel:

Wired

Speed: Auto 100 1000

Duplex: Auto Half Full

Security

Security Settings: None WEP WPA

Key or Passphrase:

Reset

Submit

http://ap2_setup.do

Wireless AP Configuration Settings

Basic Configuration

Access Point Name:

IP Address: /

Gateway:

SSID:

SSID Broadcast: Yes No

Wireless

Mode:

Channel:

Wired

Speed: Auto 100 1000

Duplex: Auto Half Full

Security

Security Settings: None WEP WPA

Key or Passphrase:

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Wireless AP Configuration Settings

Basic Configuration

Access Point Name:

IP Address: /

Gateway:

SSID:

SSID Broadcast: Yes No

Wireless

Mode: G B

Channel:

Wired

Speed: Auto 100 1000

Duplex: Auto Half Full

Security

Security Settings: None WEP WPA

Key or Passphrase:

Reset

Submit

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

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Answer: Pending

QUESTION 243

A user's laptop is unable to keep a stable network connection. Which of the following measures would MOST likely need to be configured?

- A. SSID name
 - B. WAP encryption strength
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- C. WAP radio power
- D. Channel overlay

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 244

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 245

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 246

The Network Interface Layer of the TCP/IP model corresponds to which of the following layers of the OSI model? (Select TWO).

- A. Network
- B. Session

- C. Transport
- D. Physical
- E. Data link

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 247

In which of the following layers of the OSI model would MAC addressing be found?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 248

Several users from the finance department report that they are able to access the Internet, but unable to connect to their financial applications. The network technician is unable to ping the finance server. The technician decides to check the switch and determines that Internet access is working. Which of the following is a possible cause of the access issues?

- A. Faulty cable
- B. Remote management disabled
- C. Improper VLAN assignment
- D. Mismatched duplex

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 249

A technician needs to ensure that traffic from a specific department is separated within several switches. Which of the following needs to be configured on the switch to

separate the traffic?

- A. Duplex settings
- B. SNMP string
- C. VLAN assignments
- D. Spanning tree

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 250

Several users are reporting connectivity issues with their laptops. Upon further investigation, the network technician identifies that their laptops have been attacked from a specific IP address outside of the network. Which of the following would need to be configured to prevent any further attacks from that IP address?

- A. Port security
- B. IDS
- C. Firewall rules
- D. Switch VLAN assignments

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 251

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 252

Which of the following attacks would allow an intruder to do port mapping on a company's internal server from a separate company server on the Internet?

- A. SYN flood
- B. Teardrop
- C. Smurf
- D. FTP bounce

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 253

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 254

A network technician has just upgraded a switch. The new switch's IP range and subnet mask correctly match other network devices. The technician cannot ping any device outside of the switch's own IP subnet. The previous switch worked correctly with the same settings. Which of the following is MOST likely the problem?

- A. The proxy server is set incorrectly.
- B. The Ethernet cable is pinched.
- C. The network gateway is set incorrectly.
- D. The IP address is set incorrectly.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 255

Joe has a small office and is looking to replace his phone system with a lower cost solution that requires minimal in-house support. Which of the following is the BEST choice?

- A. Wide Area Network
- B. NAT
- C. Virtual PBX
- D. Virtual LAN

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 256

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An unusual amount of activity is coming into one of the switches in an IDF. A malware attack is suspected. Which of the following tools would appropriately diagnose the problem?

- A. Cable tester
- B. Protocol analyzer
- C. Load balancer
- D. OTDR

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 257

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 258

Which of the following can a network technician change to help limit war driving?

- A. Signal strength
- B. SSID
- C. Frequency
- D. Channel

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 259

Which of the following is an example of a CSMA/CD medium?

- A. WEP
- B. SONET
- C. Token ring
- D. Ethernet

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 260

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

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E. Quality of service

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 261

A network technician is troubleshooting signal problems with certain WAPs in an office and finds consistently high ping times across the units. Such an issue is called which of the following?

- A. Latency
- B. Attenuation
- C. Crosstalk
- D. Frequency hopping

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 262

A customer has requested a solution using multiple WAPs for wireless access. Which of the following should be different on each WAP to prevent wireless problems?

- A. Firewalls
- B. VLANs
- C. Channels
- D. Antenna types

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 263

Which of the following ports would have to be allowed through a firewall for POP3 traffic to pass on its default port?

- A. 110

- B. 123
- C. 143
- D. 443

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 264

Which of the following copper cable types should be chosen to run gigabit speeds through a dropped ceiling that returns airflow?

- A. Non-Plenum CAT5
- B. Non-Plenum CAT5e
- C. Plenum CAT5
- D. Plenum CAT5e

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 265

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 266

Management wants to be sure that the existing wiring infrastructure conforms to CAT5e standards. Which of the following is the correct tool?

- A. Cable certifier
- B. Cable tester
- C. OTDR
- D. Protocol analyzer

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 267

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 268

Which of the following will allow a technician to monitor all network traffic when connected to a mirror port?

- A. VLAN tags
- B. SNMP
- C. Packet sniffer
- D. Syslog

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 269

A customer wants to increase firewall security. Which of the following are common reasons for implementing port security on the firewall? (Select TWO).

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- A. Preventing dictionary attacks on user passwords
- B. Reducing spam from outside email sources
- C. Shielding servers from attacks on internal services
- D. Blocking external probes for vulnerabilities
- E. Directing DNS queries to the primary server

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 270

A user reports that some normally accessible external sites are not responding, but most other sites are responding normally. Which of the following is MOST likely the cause?

- A. VLAN tag mismatch
- B. Wrong subnet mask
- C. Smurf attack
- D. Faulty routing rule

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 271

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 272

A user wants to connect seven PCs together for a game night. Which of the following should the user install to help with this task?

- A. Media convertor
- B. Switch
- C. Firewall
- D. Bridge

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 273

Which of the following defines the amount of time a host retains a specific IP address before it is renewed or released?

- A. DHCP lease
- B. DNS suffix
- C. Subnet mask
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- D. DHCP reservation

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 274

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 275

A customer wants to keep cost to a minimum and has only ordered a single static IP address from the ISP. Which of the following must be configured on the router to allow for all the computers to share the same public IP address?

- A. VLANs
- B. PoE
- C. PAT
- D. VPN

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 276

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.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 277

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

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QUESTION 278

A technician tests a cable going to the patch panel and notices the following output from the cable tester:

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

On a T568A standard CAT5e cable, which of the following wire strands is the cause of this connectivity issue?

- A. White Orange
- B. Solid Brown
- C. Solid Orange
- D. White Green

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 279

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 280

Which of the following security appliances are used to only identify traffic on individual systems?

- A. Host based IPS
- B. Application based IPS
- C. Network based IDS
- D. Host based IDS

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 281

Which of the following components of wiring distribution is referred to as the core communications closet for an organization?

- A. MDF
- B. Smart jack
- C. IDF
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- D. Demarc extension

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 282

Which of the following LAN technologies is used to provide a MAXIMUM bandwidth of 1Gbps through singlemode fiber?

- A. 10GBaseLR
- B. 100BaseFX
- C. 100BaseTX
- D. 1000BaseX

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 283

Which of the following does Kerberos provide?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 284

Which of the following does Kerberos use to authenticate?

- A. Tickets
- B. Servers
- C. Users
- D. Clients

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 285

After a network technician has added a new workstation and cabling to the network, users report the network is very slow. The activity lights on all switches are blinking rapidly, showing large amounts of traffic. Which of the following is the BEST explanation for the traffic?

- A. The new user is downloading large files.
- B. The router failed, flooding the network with beacons.
- C. The new user's IP address is a duplicate.
- D. A switching loop was created.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 286

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Users have reported choppy audio in phone conversations since the implementation of SIP phones on the network. Which of the following should be implemented to alleviate the delays?

- A. Caching
- B. VoIP
- C. QoS
- D. SMTP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 287

A company has recently allowed its employees to telecommute two days a week. The employees **MUST** have a minimum of 1Mbps non-shared connection to the Internet. Which of the following **MUST** the employees have at their home in order to connect to the Internet?

- A. ISDN
- B. Cable modem
- C. DSL
- D. Dial-up networking

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 288

A customer with a SOHO requires fast, secure, cost-effective access to the Internet. Which of the following would be the **MOST** appropriate solution? (Select **TWO**).

- A. OC3 line with built-in firewall
- B. DS3 line with a separate firewall
- C. Cable modem with a separate firewall
- D. Dial-up modem with separate firewall

E. DSL router with firewall capabilities

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 289

At which of the following layers do frames exist? (Select TWO).

- A. OSI model Data link layer
- B. TCP/IP model Network Interface layer
- C. OSI model Physical layer
- D. OSI model Network layer
- E. TCP/IP model Internet layer

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 290

A user is unable to access any network resources. The IP configuration of the workstation is as follows:

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IP Address: 192.168.10.32
Subnet Mask: 255.255.255.240
Default Gateway: 192.168.10.46

Which of the following would allow the user to connect to network resources?

- A. Change the default gateway to 192.168.10.1
- B. Change the default gateway to 192.168.10.254
- C. Change the IP address to 192.168.10.31
- D. Change the IP address to 192.168.10.33

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 291

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 292

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

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 293

A router operates at which of the following layers of the OSI model?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 294

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 295

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 296

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 297

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

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

Correct Answer: C

Section: (none)

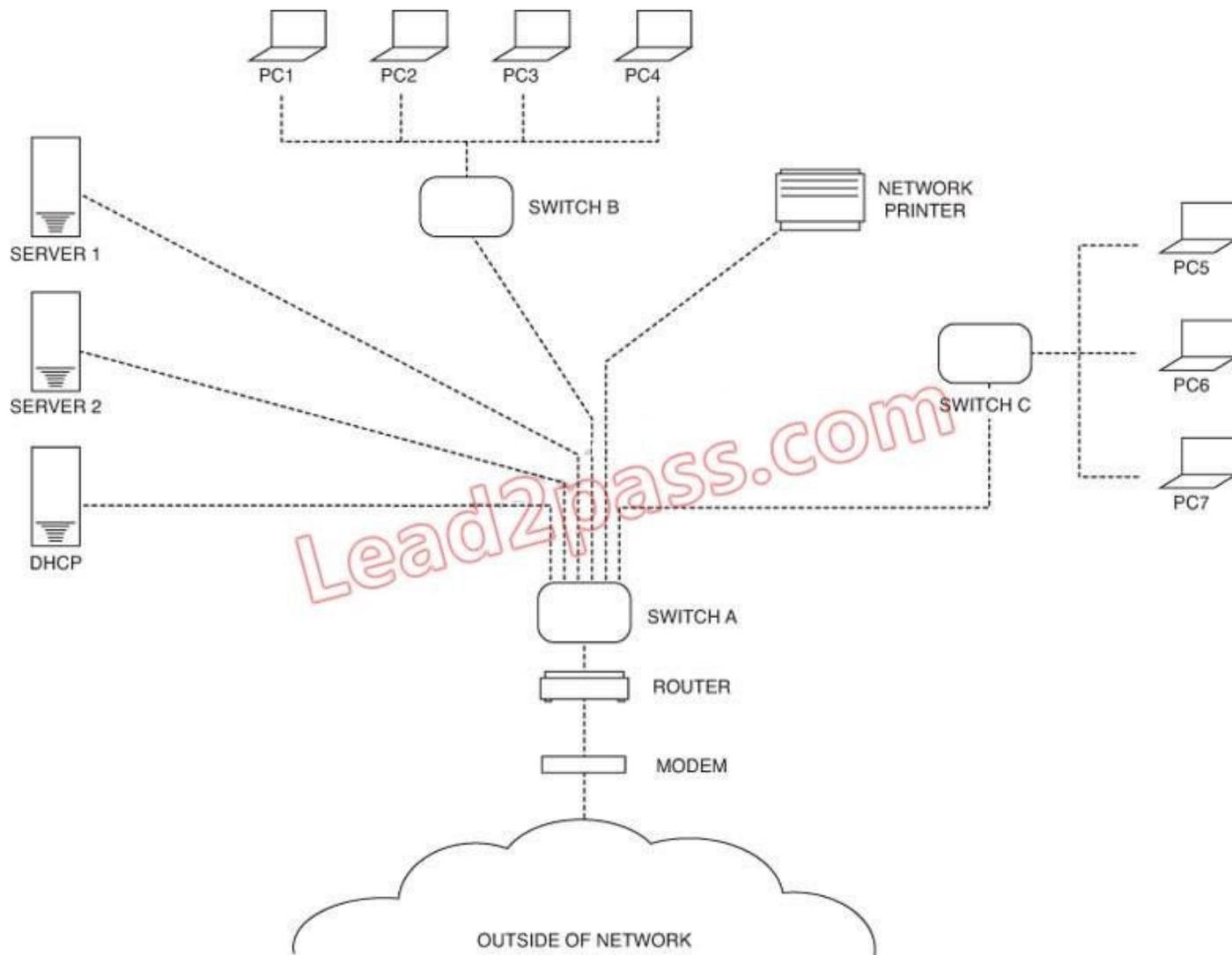
Explanation

Explanation/Reference:

QUESTION 298

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

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- A. Network security policy
- B. Network baseline
- C. Logical network diagram
- D. Wiring schematic

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

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