JK0-019 Dumps

CompTIA Network+ Certification Exam (JK0-019)

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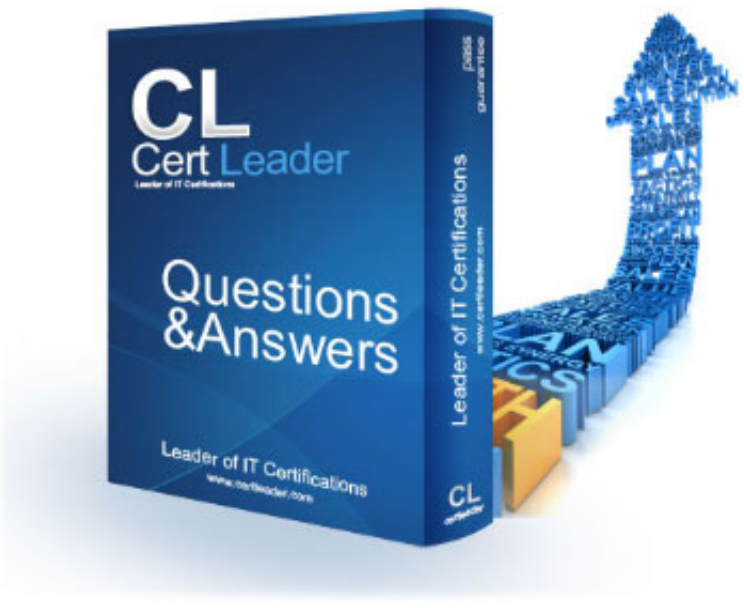


NEW QUESTION 1
The Network Interface Layer of the TCP/IP model corresponds to which of the following layers of the OSI model? (Select TWO).

A. Network
B. Session
C. Transport
D. Physical
E. Data link

Answer: DE

Explanation:
The network layer is responsible for packet forwarding including routing through intermediate routers, whereas the data link layer is responsible for media access control, flow control and error checking.

NEW QUESTION 2
In which of the following layers of the OSI model would MAC addressing be found?

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

Answer: C

Explanation:
The ITU-T G.hn standard, which provides high-speed local area networking over existing wires (power lines, phone lines and coaxial cables), includes a complete data link layer which provides both error correction and flow control by means of a selective repeat Sliding Window Protocol.

NEW QUESTION 3
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

Answer: C

Explanation:
A VLAN is a group of end stations with a common set of requirements, independent of physical location. VLANs have the same attributes as a physical LAN but allow you to group end stations even if they are not located physically on the same LAN segment.

NEW QUESTION 4
On which of the following OSI model layers would a MAC address be used?

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

Answer: B

Explanation:
The ITU-T G.hn standard, which provides high-speed local area networking over existing wires (power lines, phone lines and coaxial cables), includes a complete data link layer which provides both error correction and flow control by means of a selective repeat Sliding Window Protocol.

NEW QUESTION 5
Joe, a user, has a computer that has a link light on his network interface card (NIC); however, Joe is unable to access the Internet. Which of the following is the cause of this issue?

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

Answer: D

Explanation:
As user has link light on NIC that means he has connectivity with switch so he need to check his vlan assignment.

NEW QUESTION 6
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

Answer: A

Explanation:
During the high ping time users are using most of the bandwidth that causes latency so signal strength get affected by this.

NEW QUESTION 7
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

Answer: C

Explanation:
Port Address Translation (PAT), is an extension to network address translation (NAT) that permits multiple devices on a local area network (LAN) to be mapped to a single public IP address. The goal of PAT is to conserve IP addresses.

NEW QUESTION 8
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

Answer: D

Explanation:
1000BaseX identifies various Gigabit Ethernet physical layer standards as defined in IEEE802.3z, such as 1000BaseLX, 1000BaseSX, 1000BaseCX and 1000BaseLH. Basically, all standards included in 1000BaseX uses 8B/10B coding scheme with 8 bits of data and 2 bits of error- correction data. Each specification allows various cable (fiber or copper) lengths, and uses
different cable media.

NEW QUESTION 9
Spanning-Tree Protocol is used with which of the following network devices?

A. Router
B. NIC
C. Switch
D. DHCP server

Answer: C

Explanation:
Spanning Tree Protocol (STP) is a Layer 2 protocol that runs on bridges and switches. The specification for STP is IEEE 802.1D. The main purpose of STP is to ensure that you do not create loops when you have redundant paths in your network. Loops are deadly to a network.

NEW QUESTION 10
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

Answer: B

Explanation:
They connect multiple PCs, printers, servers and other hardware. Switches allow you to send information, such as email, and access shared resources, including printers, in a smooth, efficient, and transparent manner.

NEW QUESTION 10
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
D. DHCP reservation

Answer: A

Explanation:
By default, each IP address assigned by a DHCP Server comes with a one-day lease, which is the amount of time that the address is valid.

NEW QUESTION 11
Users are reporting that some Internet websites are not accessible anymore. Which of the following will allow the network administrator to quickly isolate the remote router that is causing the network communication issue, so that the problem can be reported to the appropriate responsible party?

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

Answer: C

Explanation:
Tracet command will tell the administrator which route is not present or which is present so he will come to know whether he has appropriate route or not.

NEW QUESTION 15
Which of the following is the common port used for IMAP?

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

Answer: C

Explanation:
The Internet Message Access Protocol (commonly known as IMAP) is an Application Layer Internet protocol that allows an e-mail client to access e-mail on a remote mail server. The current version, IMAP version 4 revision 1 (IMAP4rev1), is defined by RFC 3501. An IMAP server typically listens on well-known port 143

NEW QUESTION 20
Which of the following network protocols is used to transport email between servers?

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

Answer: D

Explanation:
While electronic mail servers and other mail transfer agents use SMTP to send and receive mail messages, user-level client mail applications typically use SMTP only for sending messages to a mail server for relaying

NEW QUESTION 24
Which of the following is the FASTEST Ethernet technology?

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

Answer: A

Explanation:
10GBASE-SR ("short range") is a port type for multi-mode fiber and uses 850 nm lasers. Its Physical Coding Sublayer 64b/66b PCS is defined in IEEE 802.3 Clause 49 and its Physical Medium Dependent PMD in Clause 52. It delivers serialized data at a line rate of 10.3125 Gbit/s.

NEW QUESTION 28
Network upgrades have been completed and the WINS server was shutdown. It was decided that NetBIOS network traffic will no longer be permitted. Which of the following will accomplish this objective?

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

Answer: B

Explanation:
TCP/IP port filtering is the practice of selectively enabling or disabling Transmission Control Protocol (TCP) ports and User Datagram Protocol (UDP) ports on computers or network devices. When used in conjunction with other security practices, such as deploying firewall software at your Internet access point, applying port filters to intranet and Internet servers insulates those servers from many TCP/IP-based security attacks, including internal attacks by malicious users.

NEW QUESTION 31
At which of the following layers of the OSI model does ASCII work?

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

Answer: C

Explanation:
The presentation layer is responsible for the delivery and formatting of information to the application layer for further processing or display. It relieves the application layer of concern regarding syntactical differences in data representation within the end-user systems. An example of a presentation service would be the conversion of an EBCDIC-coded text computer file to an ASCII-coded file.

NEW QUESTION 35
Which of the following protocols is MOST commonly used for the transfer of router configuration files?

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

Answer: B

Explanation:
Trivial File Transfer Protocol (TFTP) is a file transfer protocol notable for its simplicity. It is generally used for automated transfer of configuration or boot files between machines in a local environment. Compared to FTP, TFTP is extremely limited, providing no authentication, and is rarely used interactively by a user.

NEW QUESTION 38
Which of the following protocols resolves IP addresses to MAC addresses?

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

Answer: B

Explanation:
ARP is used to convert an IP address to a physical address such as an Ethernet address. ARP has been implemented with many combinations of network and data link layer technologies, such as IPv4, Chaosnet, DECnet and Xerox PARC Universal Packet (PUP) using IEEE 802 standards, FDDI, X.25, Frame Relay and Asynchronous Transfer Mode (ATM). IPv4 over IEEE 802.3 and IEEE 802.11 is the most common case.

NEW QUESTION 40
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

Answer: A

Explanation:
The VPN Concentrator is used for Remote Access VPN's. In typical use, a Remote Access VPN allows users to use an encrypted tunnel to securely access a corporate or other network via the Internet.

NEW QUESTION 41
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

Answer: A

NEW QUESTION 43
Which of the following is a path vector routing protocol?

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

Answer: E

Explanation:
Because BGP involves a table of IP networks or "prefixes" which designate network reachability among autonomous systems (AS).

NEW QUESTION 46
Which of the following routing protocols utilizes the DUAL algorithm for determining best path?

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

Answer: A

Explanation:
Diffusing Update Algorithm guarantees loop-free operation and provides a mechanism for fast convergence.

NEW QUESTION 49
The APIPA address 169.254.10.123 falls into which of the following class of addresses?

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

Answer: B

Explanation:
As the range for class B is from 128.0.0.0 to 191.255.255.255

NEW QUESTION 51
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

Answer: C

Explanation:
This happens when there are multiple DHCP servers in the same LAN subnet. Here some machines are getting ip address from the router while some are getting ip address from another DHCP server present in the same domain.

NEW QUESTION 54
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

Answer: C

Explanation:
The presentation level is translator between the application and network format. Unlike the lower layers, its concern is with the syntax and semantics of the information transmitted. Most user programs do not exchange random binary bit strings. They exchange data such as names, addresses, dates, etc. Different computers store the data in a different way. In order to allow these computers to transmit the data to each other the presentation layer translates the data into a standard form to be used on the network. Another function is data compression which can be used to reduce the number of bits needed to send the packet of information. Security is also added at this layer by using data encryption and decryption. This prevents others from intercepting the data and being able to decipher the meaning of the bits.

NEW QUESTION 57
Which of the following uses classless subnet masks across a network?

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

Answer: B

Explanation:

Classless Inter-Domain Routing is based on variable-length subnet masking (VLSM), which allows a network to be divided into variously sized subnets, providing the opportunity to size a network more appropriately for local needs and also CIDR allows an address or routing prefix to be written with a suffix indicating the number of bits of the prefix, such as 192.168.2.0/24.

NEW QUESTION 60
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

Answer: A

Explanation:
A logical network diagram illustrates the network architecture of a group of interconnected computers and other devices, such as printers, modems, switches, routers, and even mobile devices. These electronic components form the physical network that provides local area network (LAN) and wide area network (WAN) access to users. Once you know the layout and you have an idea about the packet flow then your job becomes easy and you can create an action plan to go for the implementation.

NEW QUESTION 62
If a NIC does not have a link light, there is a failure at which of the following OSI layers?

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

Answer: A

Explanation:
The NIC does not have light refers to a situation that there could be a fault in the LAN cable or the ports are down and all of these fall under the physical layer. To make it simple, it falls in physical layer because blinking lights refers to the physical connectivity.

NEW QUESTION 63
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

Answer: D

Explanation:
Basically File Transfer protocol (FTP) is responsible for file transfer which lies under Application layer (Layer 7) of OSI layers.

NEW QUESTION 67
Which of the following is a common physical network topology?

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

Answer: C

Explanation:
A star network consists of one central switch, hub or computer, which acts as a conduit to transmit messages. This consists of a central node, to which all other nodes are connected; this central node provides a common connection point for all nodes through a hub. In star topology, every node (computer workstation or any other peripheral) is connected to central node called hub or switch.

NEW QUESTION 71
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.

Answer: C

Explanation:
Router always looks for the most closely matched route for forwarding the packet. For example if there are two routes in your router and you have to send a packet to a host with an ip 10.10.10.10 then it will forward packet to 192.168.1.10 rather than 192.168.1.1:
Network Destination Netmask Gateway 0.0.0.0 0.0.0.0 192.168.1.1 10.10.10.0 255.255.255.0 192.168.1.10

NEW QUESTION 73
A proxy server would MOST likely be installed to provide which of the following functions? (Select TWO).

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

Answer: CE

Explanation:
A content-filtering web proxy server provides administrative control over the content that may be relayed in one or both directions through the proxy. A caching proxy server accelerates service requests by retrieving content saved from a previous request made by the same client or even other clients.

NEW QUESTION 76
Which of the following would the telecommunications carrier use to segregate customer traffic over long fiber links?

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

Answer: B

Explanation:
MPLS is a mechanism in high-performance telecommunications networks that directs data from one network node to the next based on short path labels rather than long network addresses, avoiding complex lookups in a routing table. The labels identify virtual links (paths) between distant nodes rather than endpoints

NEW QUESTION 80
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

Answer: B

NEW QUESTION 81
Which of the following has the LEAST amount of collisions in a domain?

A. Bridge
B. Hub
C. Repeater
D. Switch

Answer: D

NEW QUESTION 82
Which of the following protocols uses port 3389 by default?

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

Answer: A

NEW QUESTION 83
Which of the following network protocols is used to transport email across the Internet?

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

Answer: C

NEW QUESTION 84
The application layer in the TCP/IP model is comparable to which of the following layers in the OSI model?

A. Layer 2
B. Layer 5
C. Layer 6
D. Layer 7

Answer: D

NEW QUESTION 87
A network technician has determined a managed network switch has failed. The technician knows how to install a new switch, but not how to properly configure it. Which of the following troubleshooting steps should the technician take NEXT?

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

Answer: A

NEW QUESTION 88
Which of the following source ports is MOST likely to be used by a client when making an outbound TCP connection to a windows server?

A. 80
B. 445
C. 3000
D. 3389

Answer: C

NEW QUESTION 93
Which of the following services are affected by closing the default ports of 80 and 21 via ACL on a company router?

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

Answer: A

NEW QUESTION 96
Which of the following uses types and codes rather than ports?

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

Answer: B

NEW QUESTION 99
Which of the following protocols are used to provide accurate time to network devices?

A. SMTP
B. FTP
C. TLS
D. NTP

Answer: D

NEW QUESTION 104
A home user states during a basement remodel, one of the workers cut the network cable that goes from the modem to the WAP and nothing else has changed. According to the network troubleshooting methodology, which of the following is the NEXT step?

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

Answer: C

NEW QUESTION 109
A MAC address is a part of which of the following OSI model layers?

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

Answer: B

NEW QUESTION 111
The systems administrator has assigned an IP address and default gateway to a standard Layer 2 switch. Which of the following would be the primary purpose of doing this?

A. Allow VLAN routing
B. Enable packet filtering on the switch
C. Allow remote administration of the switch
D. Enable MAC filtering on the switch

Answer: C

NEW QUESTION 115
A technician finds that the network card is no longer functioning. At which of the following OSI layers is the problem occurring?

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

Answer: A

NEW QUESTION 119
The address 6FFE:FFFF:0000:2F3B:04AC:00FF:FEBE:5C4A is an example of which of the following?

A. APIPA
B. MAC
C. IPv4
D. IPv6

Answer: D

NEW QUESTION 123
Which of the following is a link state routing protocol?

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

Answer: C

NEW QUESTION 126
A web server that provides shopping cart capabilities for external end users will likely function with which of the following protocols?

A. HTTPS
B. POP3
C. SSH
D. SMTP

Answer: A

NEW QUESTION 127
Which of the following TCP/IP model layers does the OSI model Data Link layer map to?

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

Answer: D

NEW QUESTION 131
Which of the following ports is used by Telnet?

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

Answer: B

NEW QUESTION 134
Which of the following protocols could the below packet capture be from?
Port: 161
msgVersion: <masked> msgUsername: <masked>

msgAuthenticationParameters: <masked> msgPrivacyParameters: <masked> msgData:
data: get-request request-iD. <masked> error-status: noError (0)
error-index: 0
variable-bindings: 0 items

A. SNMPv3
B. SSH
C. HTTP
D. SNMPv1

Answer: A

NEW QUESTION 137
Which of the following network protocols would be used to transmit traps across a network to a log server?

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

Answer: D

NEW QUESTION 139
Which of the following protocols is used by Windows to securely access a remote computer?

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

Answer: D

NEW QUESTION 140
The components of a NIC function at which of the following layers of the OSI model? (Select TWO).

A. Layer 1
B. Layer 2
C. Layer 3
D. Layer 4
E. Layer 5

Answer: AB

NEW QUESTION 142
An IP address is encapsulated at which of the following layers of the OSI model?

A. Transport
B. Data link
C. Network
D. Application

Answer: C

NEW QUESTION 146
Assigning IP addresses from a pool of predetermined available addresses is the role of which of the following network appliances?

A. RADIUS
B. DNS
C. DHCP
D. IDS

Answer: C

NEW QUESTION 149
After a new firewall is installed, users report that they do not have connectivity to the Internet. The output of the ipconfig command shows an IP address of 169.254.0.101. Which of the following ports would need to be opened on the firewall to allow the users to obtain an IP address? (Select TWO).

A. UDP 53
B. UDP 67
C. UDP 68
D. TCP 53
E. TCP 67
F. TCP 68

Answer: BC

NEW QUESTION 151
Which of the following is a public class C IP address?

A. 4.2.2.2
B. 194.178.12.54
C. 175.35.46.60
D. 192.168.1.34

Answer: B

NEW QUESTION 155
Users in several departments are reporting connectivity problems. The technician examines the computer and finds the following settings. The IP address is 10.0.1.0 with a subnet mask of 255.255.252.0. The default gateway is 10.0.1.1 and the DNS server is 10.0.0.15. A user can connect to the internet but not servers on other internal subnets. The technician is not able to connect with a server with an IP of 10.0.2.25. Which of the following is MOST likely the problem?

A. Default gateway
B. Duplicate IP address
C. Wrong DNS
D. Subnet mask

Answer: D

NEW QUESTION 158
At which layer of the OSI and TCP/IP model would HTTP and FTP be found?

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

Answer: A

NEW QUESTION 163
At which layer of the TCP/IP model would cabling exist?

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

Answer: A

NEW QUESTION 168
Which of the following can be configured on a managed network switch to send real time alerts to a technician?

A. SSID
B. SMTP
C. SNMP
D. Syslog

Answer: C

NEW QUESTION 170
Which of the following routing protocols can be utilized as both an IGP and EGP?

A. EIGRP
B. RIP
C. IGRP
D. RIPv2

Answer: A

NEW QUESTION 175
Which of the following remote access protocols is commonly used for command line access to a device?

A. RAS
B. VPN
C. RDP
D. SSH

Answer: D

NEW QUESTION 177
A technician wants to send management information from devices on the network to a central server and have it encrypted in the process. Which of the following protocols can be used?

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

Answer: A

NEW QUESTION 179
An administrator needs to open ports in the firewall for both DNS and eDNS. Which of the following default ports would need to be opened on the firewall? (Select TWO).

A. TCP 23
B. TCP 53
C. TCP 123
D. UDP 23
E. UDP 53
F. UDP 123

Answer: BE

NEW QUESTION 180
The MAC address of a network device is used to communicate at which of the following OSI layers?

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

Answer: B

NEW QUESTION 181
Which of the following TCP/IP model layers combines four OSI model layers?

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

Answer: A

NEW QUESTION 186
Which of the following OSI model layers are present in the application layer of the TCP/IP model? (Select TWO).

A. Data Link
B. Transport
C. Network
D. Session
E. Presentation

Answer: DE

NEW QUESTION 187
A SOHO client has tasked Joe, a technician, with setting up a basic SOHO network to support four laptops and one desktop PC. The client would also like to have a basic wireless network to use for internal devices only that is secure. Given the list of requirements, which of the following devices would Joe need to purchase for his client? (Select TWO).

A. IDS
B. Repeater
C. Switch
D. WAP
E. UTM device

Answer: CD

NEW QUESTION 188
The BEST way to determine the next hop of a packet is to check the:

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

Answer: B

NEW QUESTION 189

Which of the following is the unit used to transfer information at Layer 2 of the OSI model?

A. Packet
B. Socket
C. Session
D. Frame

Answer: D

NEW QUESTION 194
Which of the following defines an IP address that is NOT routed on the Internet?

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

Answer: C

NEW QUESTION 197
Which of the following OSI model layers is used to order packets which may have arrived out of order?

A. Transport
B. Presentation
C. Network
D. Session

Answer: A

NEW QUESTION 200
Dynamic DNS provides which of the following services?

A. Automatic registration of host records
B. Translates public host names to private host names
C. Provides round robin load balancing for web servers
D. Provides aliases for additional search suffixes

Answer: A

NEW QUESTION 202
The network technician has recently implemented VLANs on the company network. Ever since this implementation, sections within the company can no longer share information. While troubleshooting, the technician realizes they are unable to ping a device from another VLAN. Which of the following needs to be configured to fix this problem?

A. Clear the ARP table
B. Add host entries on the user's computer
C. Configure 802.1x trunks on the switches
D. Configure 802.1q trunks on the switches

Answer: D

NEW QUESTION 204
Which of the following allows for groups of ports on the same switch to operate as a part of different segmented networks?

A. RIP
B. STP
C. VLAN
D. MTU

Answer: C

NEW QUESTION 208
After the technician has established a theory of probable cause of a user reported problem, which of the following should the technician do NEXT in the troubleshooting process?

A. Implement the solution to the problem.
B. Establish a plan of action.
C. Identify the problem.
D. Implement preventative measures.

Answer: B

NEW QUESTION 211
Which of the following STP states indicates an inactivated port due to a loop?

A. Disabled
B. Learning
C. Blocking
D. Forwarding

Answer: C

NEW QUESTION 213
Which of the following is the BEST network configuration to use if the technician wants to send all outgoing traffic to the external router?

A. ACLs
B. Static routing
C. Trunking
D. SNMP strings

Answer: B

NEW QUESTION 214
Which of the following is used to describe trunking VLANs on a network?

A. 802.11a
B. 802.11i
C. 802.1q
D. 802.1x

Answer: C

NEW QUESTION 219
A company pays a third-party vendor a monthly fee to connect to offsite servers and desktops. Users connect to the desktops via RDP, and administrators connect to the servers via VPN. Servers and desktops are hardware-based. Which of the following is the third-party providing?

A. Virtual desktops
B. Virtual servers
C. NaaS
D. SaaS

Answer: C

NEW QUESTION 223
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

Answer: D

Explanation:
The 2.4 GHz ISM band is fairly congested. With 802.11n, there is the option to double the bandwidth per channel to 40 MHz which results in slightly more than double the data rate. However, when in 2.4 GHz, enabling this option takes up to 82%[10] of the unlicensed band, which in many areas may prove to be infeasible. The specification calls for requiring one primary 20 MHz channel as well as a secondary adjacent channel spaced ±20 MHz away. The primary channel is used for communications with clients incapable of 40 MHz mode. When in 40 MHz mode, the center frequency is actually the mean of the primary and secondary channels.

NEW QUESTION 225
Which of the following performance optimization techniques would be MOST beneficial for a network-wide VoIP setup? (Select TWO).

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

Answer: BE

Explanation:
Traffic shaping retains excess packets in a queue and then schedules the excess for later transmission over increments of time. The result of traffic shaping is a smoothed packet output rate. QoS (Quality of Service) is a major issue in VOIP implementations. The issue is how to guarantee that packet traffic for a voice or other media connection will not be delayed or dropped due interference from other lower priority traffic.
Things to consider are:
Latency: Delay for packet delivery
Jitter: Variations in delay of packet delivery
Packet loss: Too much traffic in the network causes the network to drop packets Burstiness of Loss and Jitter: Loss and Discards (due to jitter) tend to occur in bursts

NEW QUESTION 226

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

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

Answer: B

Explanation:
The 802.11b standard allows for a maximum data transfer speed of 11 Mbps, at a range of about 100 m indoors and up to 200 metres outdoors (or even beyond that, with directional antennas.) Hypothetical speed
Range(indoors) Range(outdoors) 11 Mbits/s
50 m
200 m

NEW QUESTION 230
5 Mbits/s
75 m
300 m
2 Mbits/s
100 m
400 m
1 Mbit/s
150 m
500 m

A. Mastered
B. Not Mastered

Answer: A

NEW QUESTION 231
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

Answer: B

Explanation:
Power over Ethernet or PoE describes any of several standardized or ad-hoc systems which pass electrical power along with data on Ethernet cabling. This allows a single cable to provide both data connection and electrical power to devices such as wireless access points or IP cameras.

NEW QUESTION 234
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

Answer: B

Explanation:
This generally happens when the signals are weak in any particular area and any movement can make you lose connectivity to the internet. In this case you can try to increase the radio power so that the signal strength can be increased.

NEW QUESTION 235
A network administrator is tasked with deploying a company-wide wireless system which allows for accurate tracking of employees' wireless device locations via WAP triangulation. Which of the following is the MOST important aspect of the deployment?

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

Answer: A

Explanation:
Before going ahead with the deployment, the first thing that need to be check is where you are going to place your wireless router so that you can have internet connectivity from every location that you need.

NEW QUESTION 236
Ann, a technician, is installing network cables for an office building. Some of the cables are not showing active on the switch even when moved to different ports. Which of the following is MOST likely the cause?

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

Answer: C

Explanation:
Bad wiring refers to the state when you do not follow a pattern and everything seems messed up and you are not able to figure out the cause.

NEW QUESTION 237
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

Answer: CD

Explanation:
It could be problem with the bad connector because the user just moved furniture to the cubicle and it is quite possible that the movement of the furniture has created problem by disrupting the cabling and connections. These two are the important things which can be broken down whenever there is a physical movement.

NEW QUESTION 239
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.

Answer: D

Explanation:
A Switching loop or Bridge loop occurs in computer networks when there is more than one Layer 2 (OSI model) path between two endpoints (e.g. multiple connections between two network switches or two ports on the same switch connected to each other). The loop creates broadcast radiation as broadcasts and multicasts are forwarded by switches out every port, the switch or switches will repeatedly rebroadcast the broadcast messages flooding the network.

NEW QUESTION 242
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

Answer: C

Explanation:
Digital subscriber line (DSL, originally digital subscriber loop) is a family of technologies that provide Internet access by transmitting digital data over the wires of a local telephone network.

NEW QUESTION 247
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 ABuilding BBuilding C Channel: 2Channel: 6Channel: 11
Encryption: WPA2Encryption: WPA2Encryption: 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

Answer: B

Explanation:

Because the building B is in the middle, the wireless access router will have reachability to the building A and C. Now, the only thing that we need to do is to open the Wireless access on B for the guest users for the WAP in B so that the users coming to building A and C can get access to internet using the open connection.

NEW QUESTION 250
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.

Answer: AD

Explanation:
Strong encryption is required to keep the user's internet safe and secure so as to avoid misuse of the internet connection and to ensure that channel conflicts are not there so that the signals do not compete with each other and user start to face intermittent connection.

NEW QUESTION 251
A user cannot access the LAN after working successfully most of the day. Which of the following should the network administrator check FIRST?

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

Answer: C

Explanation:
A patch cable or patch cord or patch lead is an electrical or optical cable used to connect ("patch- in") one electronic or optical device to another for signal routing.

NEW QUESTION 253
Which of the following can be used to limit wireless network access to a single computer?

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

Answer: C

Explanation:
Wireless access can be filtered by using the Media Access Control (MAC) addresses of the wireless devices transmitting within your wireless network. You can either permit or prevent specific wireless computers and devices access to your wireless network.

NEW QUESTION 254
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

Answer: C

Explanation:
A router is a device which is capable of performing entire task required by the business owner.

NEW QUESTION 255
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.

Answer: D

Explanation:
The "ifconfig" command allows the linux/unix operating system to setup network interfaces and allow the user to view information about the configured network interfaces.

NEW QUESTION 256
A network consultant arrives at a customer's site to troubleshoot their email server. The server is running a Linux operating system, but the consultant is only familiar with Windows operating systems. Which of the following troubleshooting steps should the consultant take?

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

Answer: C

Explanation:
It is better to escalate the problem if you are not aware of the situation as it saves downtime and keeps customer happy.

NEW QUESTION 260
A technician is reviewing the following company diagram to determine proper connectivity 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

Answer: D

Explanation:
no legitimate Category 6e standard exists

NEW QUESTION 261
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

Answer: A

Explanation:
Syslog server logs are the logs that are saved on a system whenever an instance happens of the wireless device. Reviewing the logs can help him understand the behavior of the WAP as well as the client.

NEW QUESTION 266
When a packet that is entering a switch port is encapsulated, which of the following is the switch performing?

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

Answer: A

Explanation:
Encapsulation is the term associated with 802.1q which is enabled by default on many devices.

NEW QUESTION 267

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

Answer: C

Explanation:
Bouncing is the tendency of any two metal contacts in an electronic device to generate multiple signals as the contacts close or open.

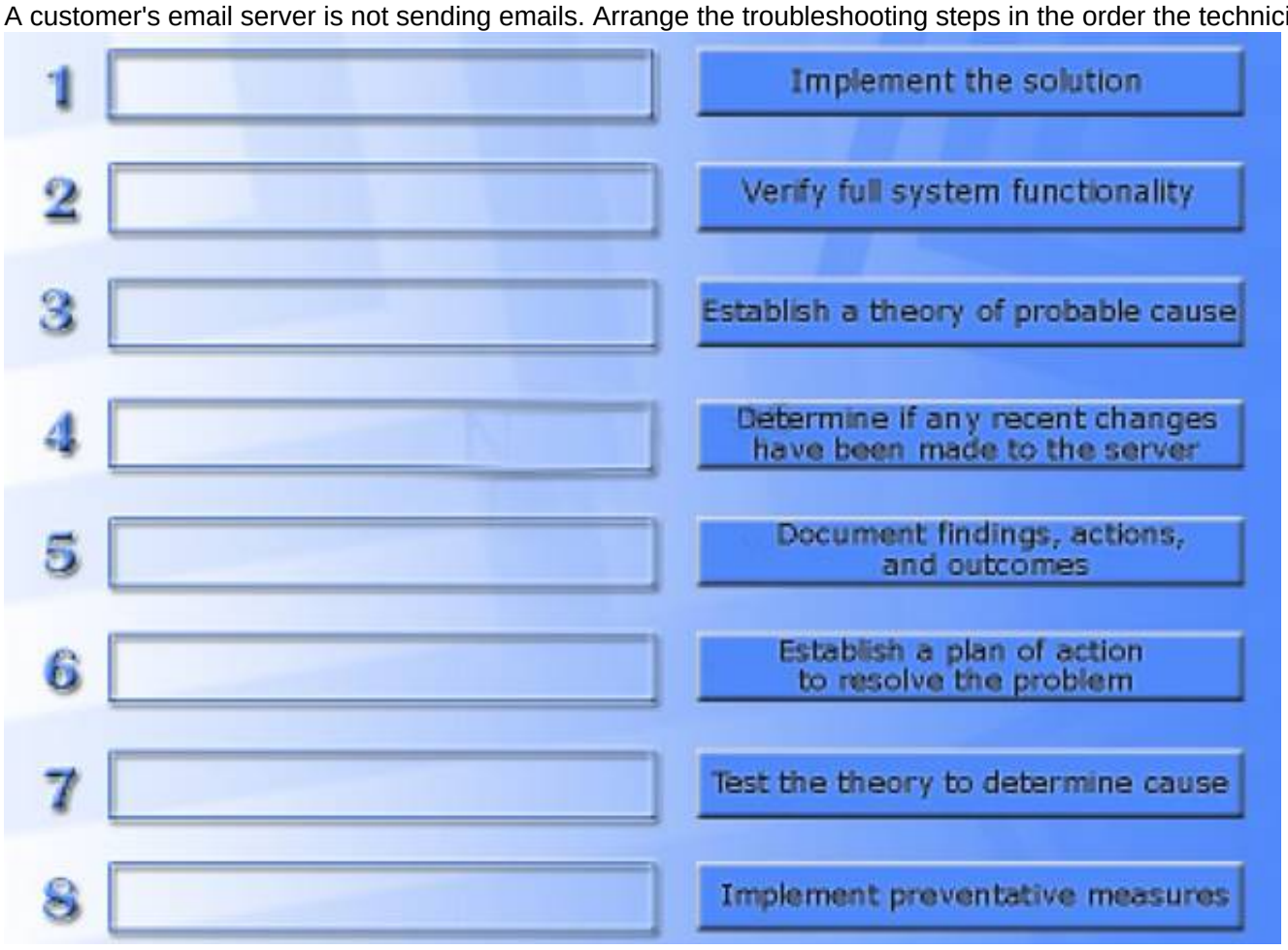
NEW QUESTION 270
A technician has a network with a mix of newer and older equipment. Which of the following settings would dynamically configure whether to use full or half duplex?

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

Answer: C

Explanation:
Autonegotiation is an Ethernet procedure by which two connected devices choose common transmission parameters, such as speed, duplex mode, and flow control. In this process, the connected devices first share their capabilities regarding these parameters and then choose the highest performance transmission mode they both support.

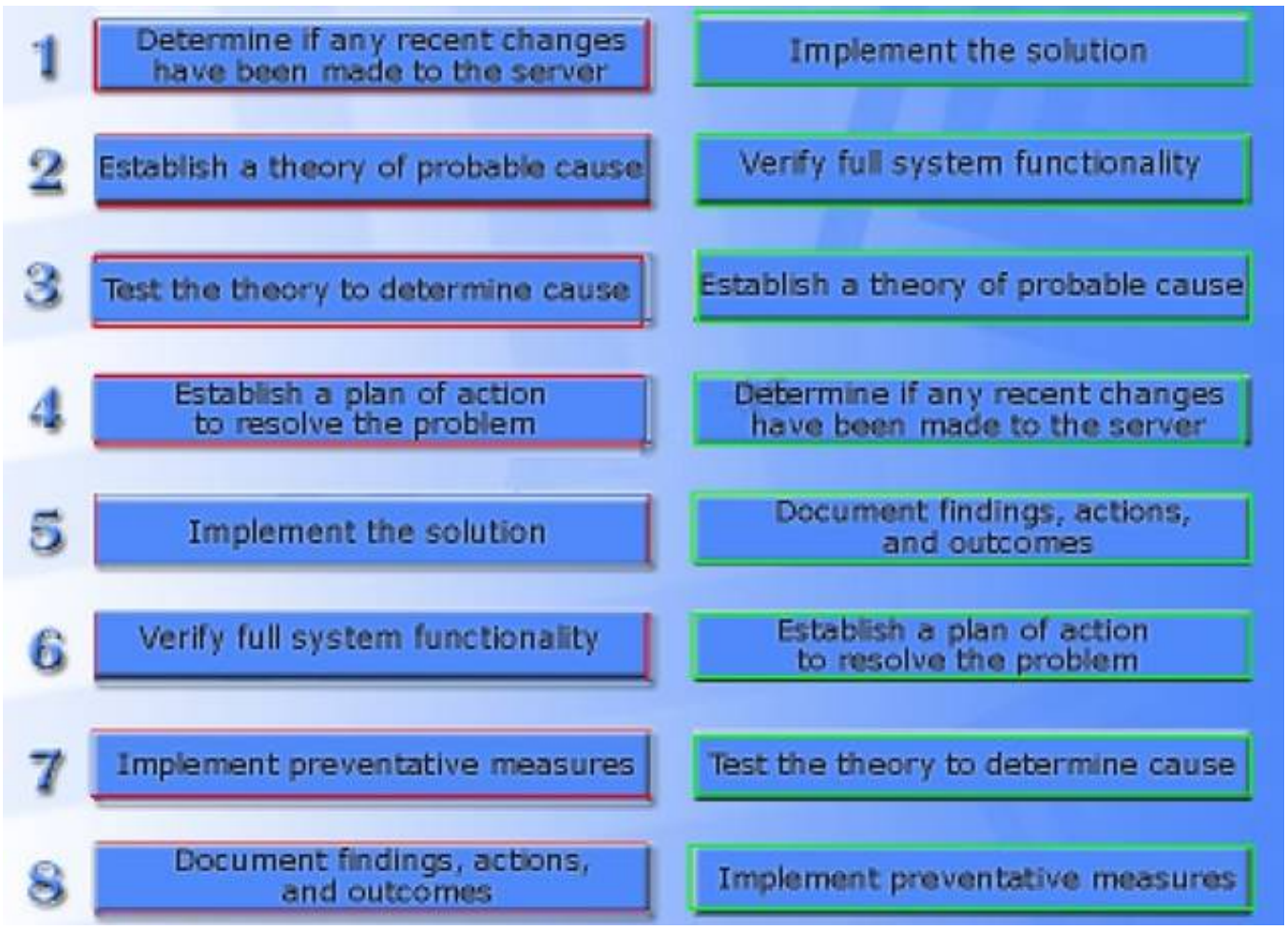
NEW QUESTION 273
DRAG DROP
A customer's email server is not sending emails. Arrange the troubleshooting steps in the order the technician should perform them:



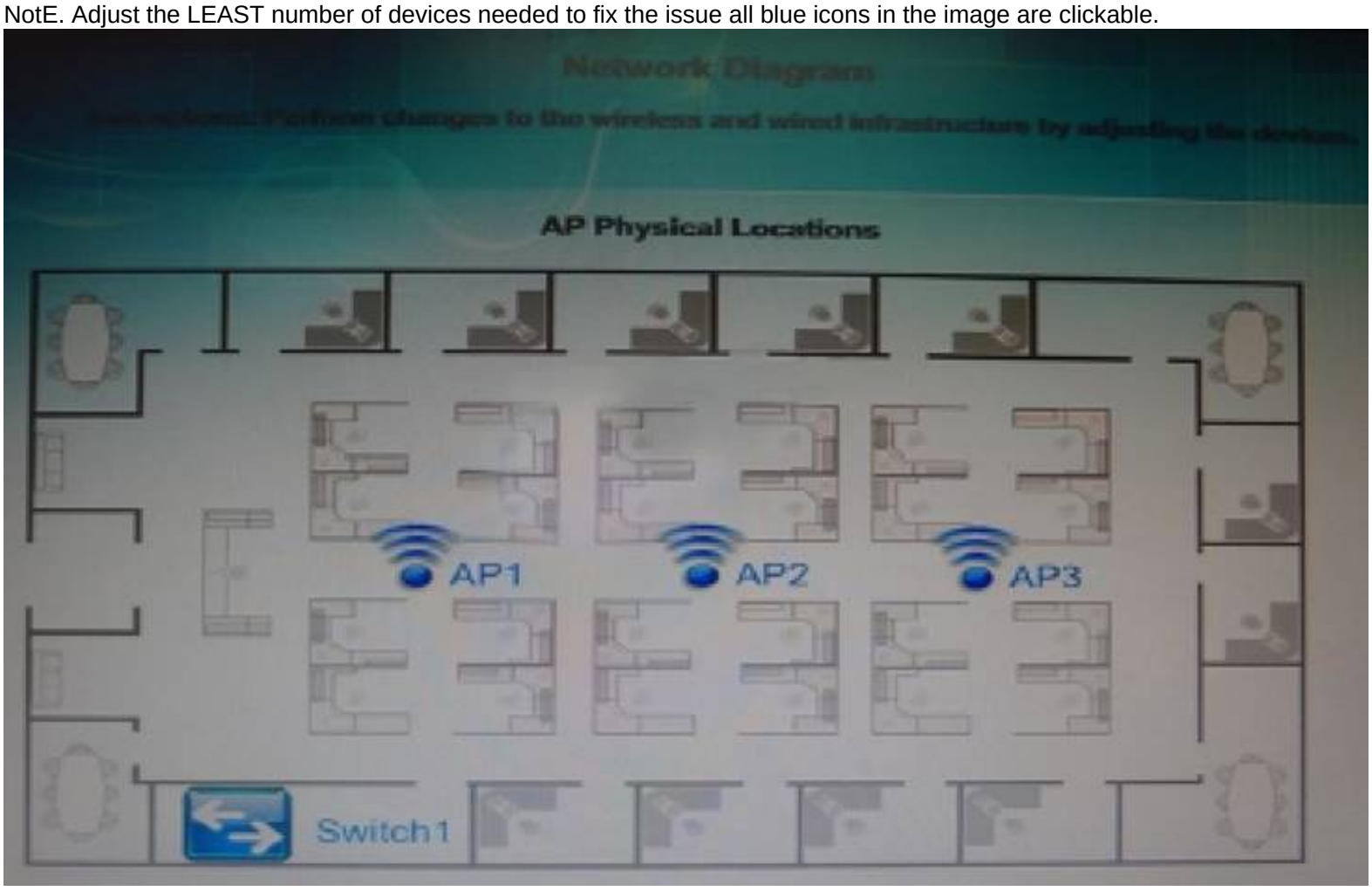
A. Mastered
B. Not Mastered

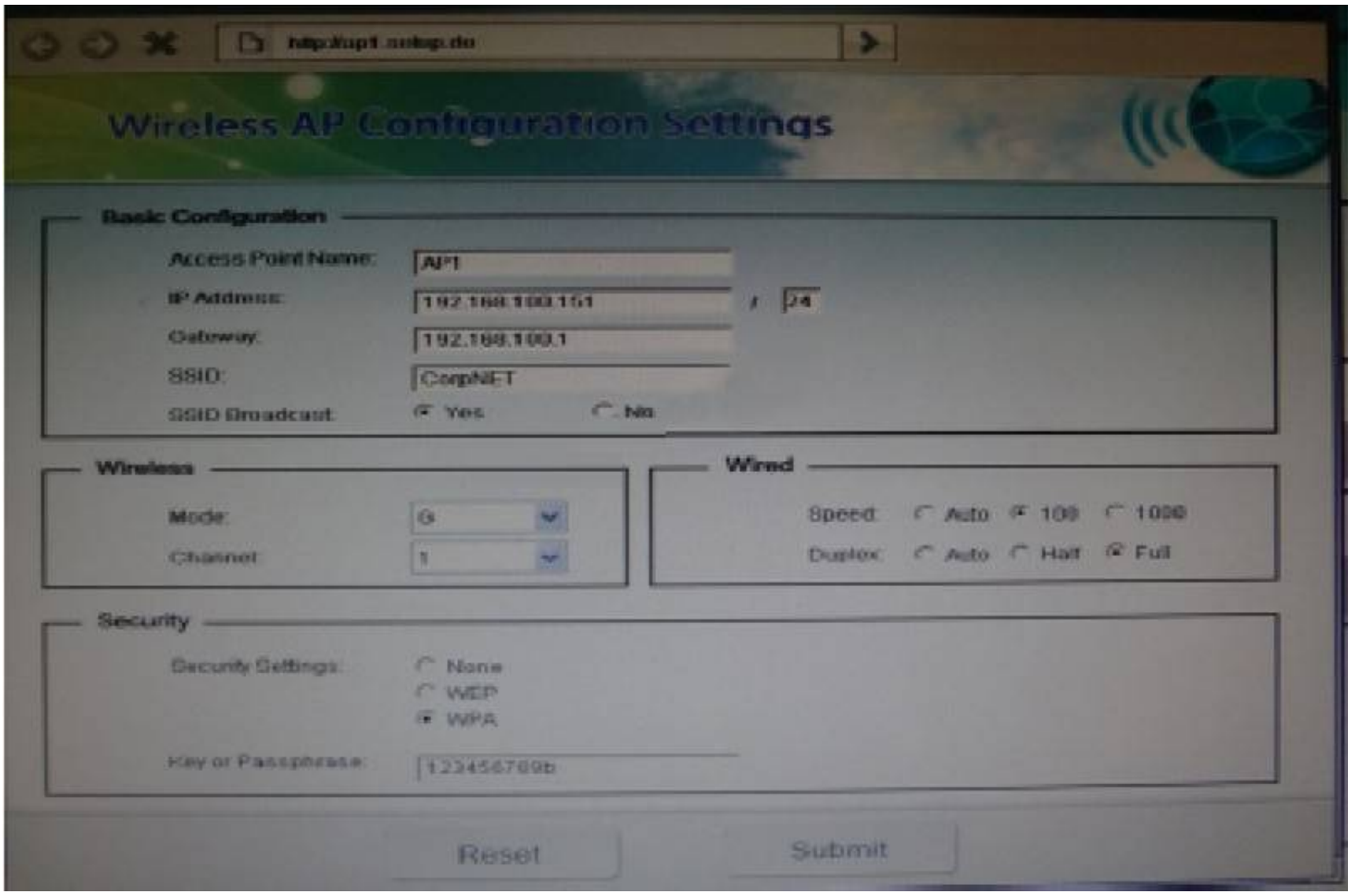
Answer: A

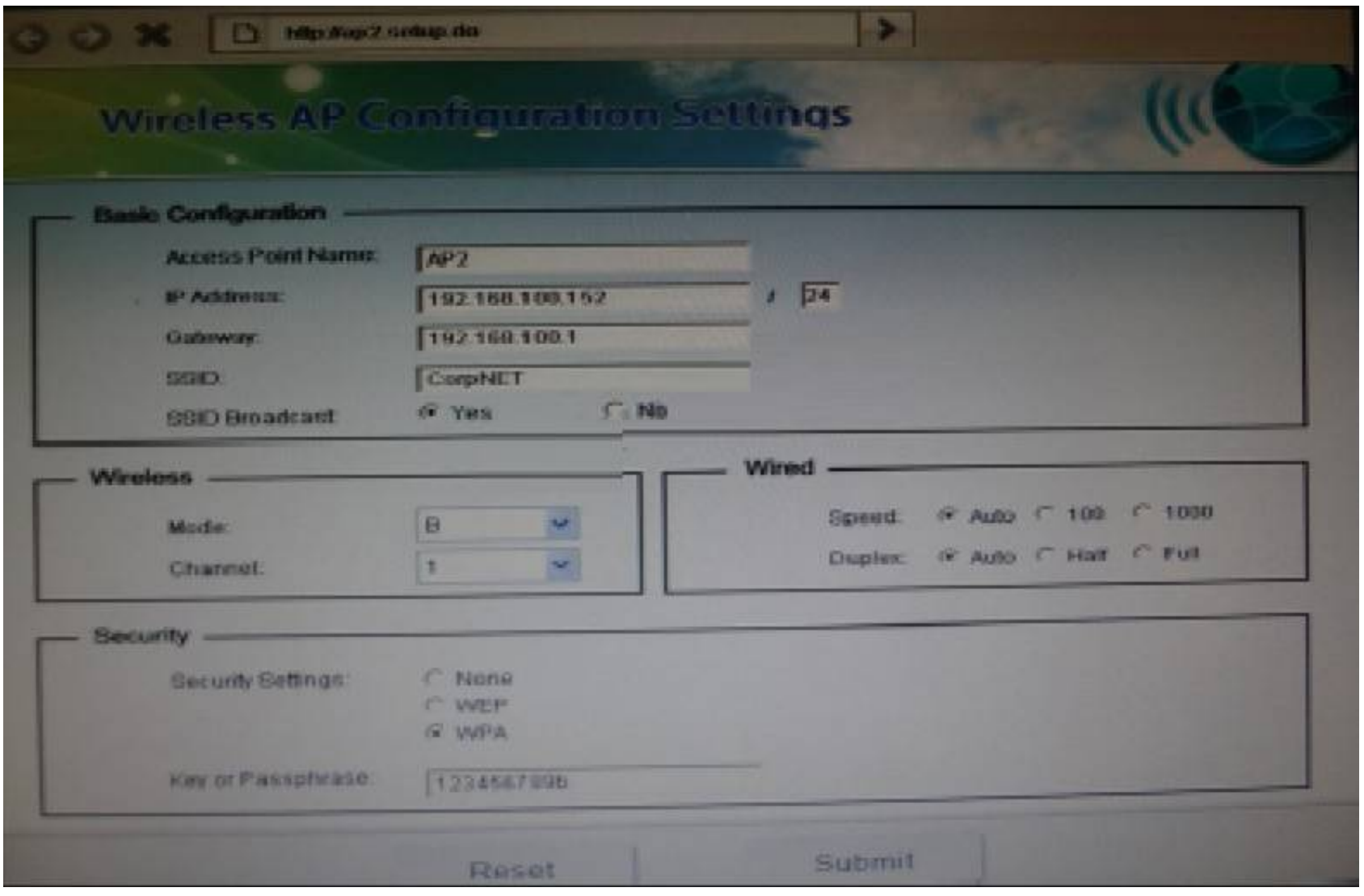
Explanation:

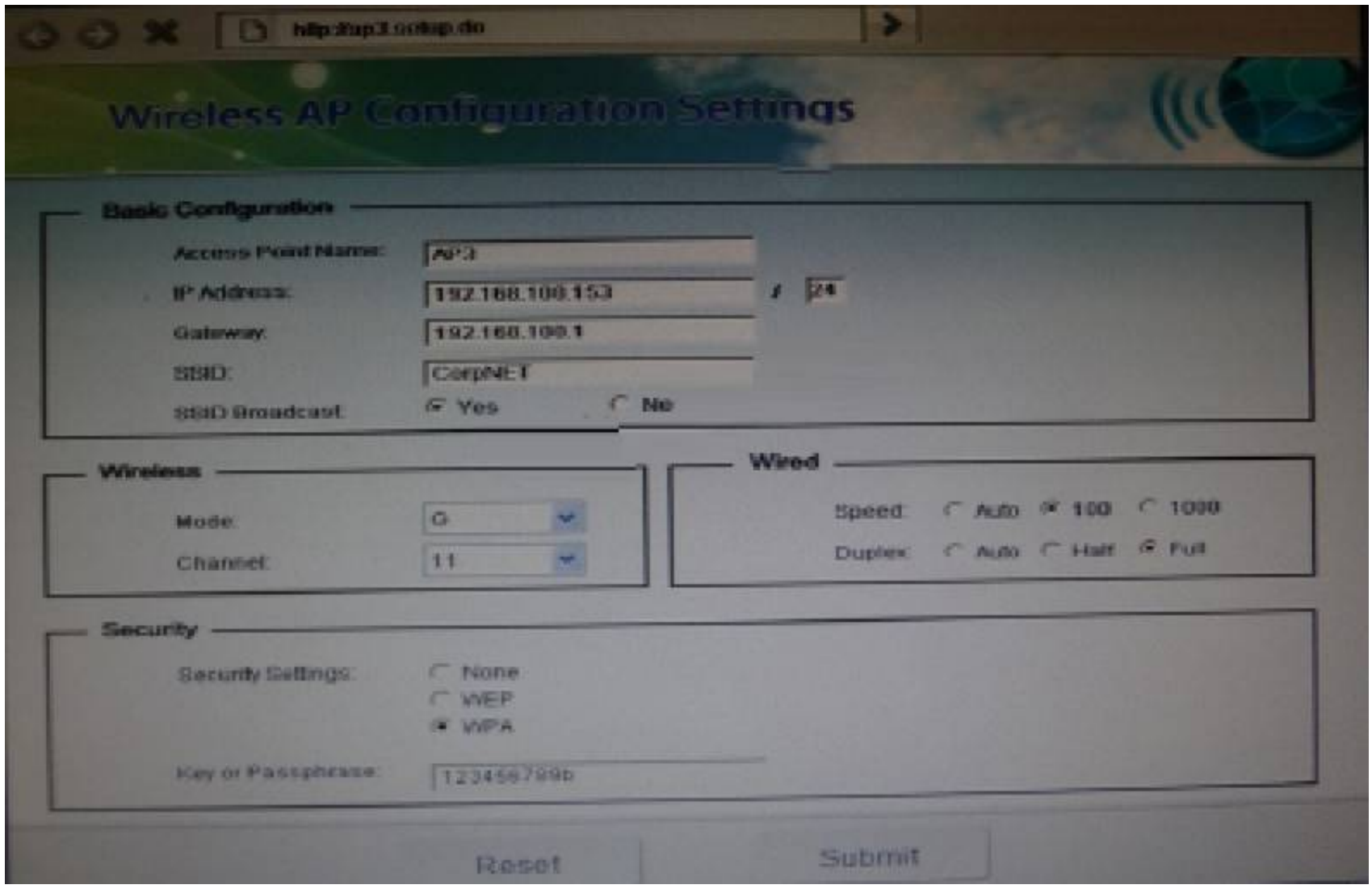


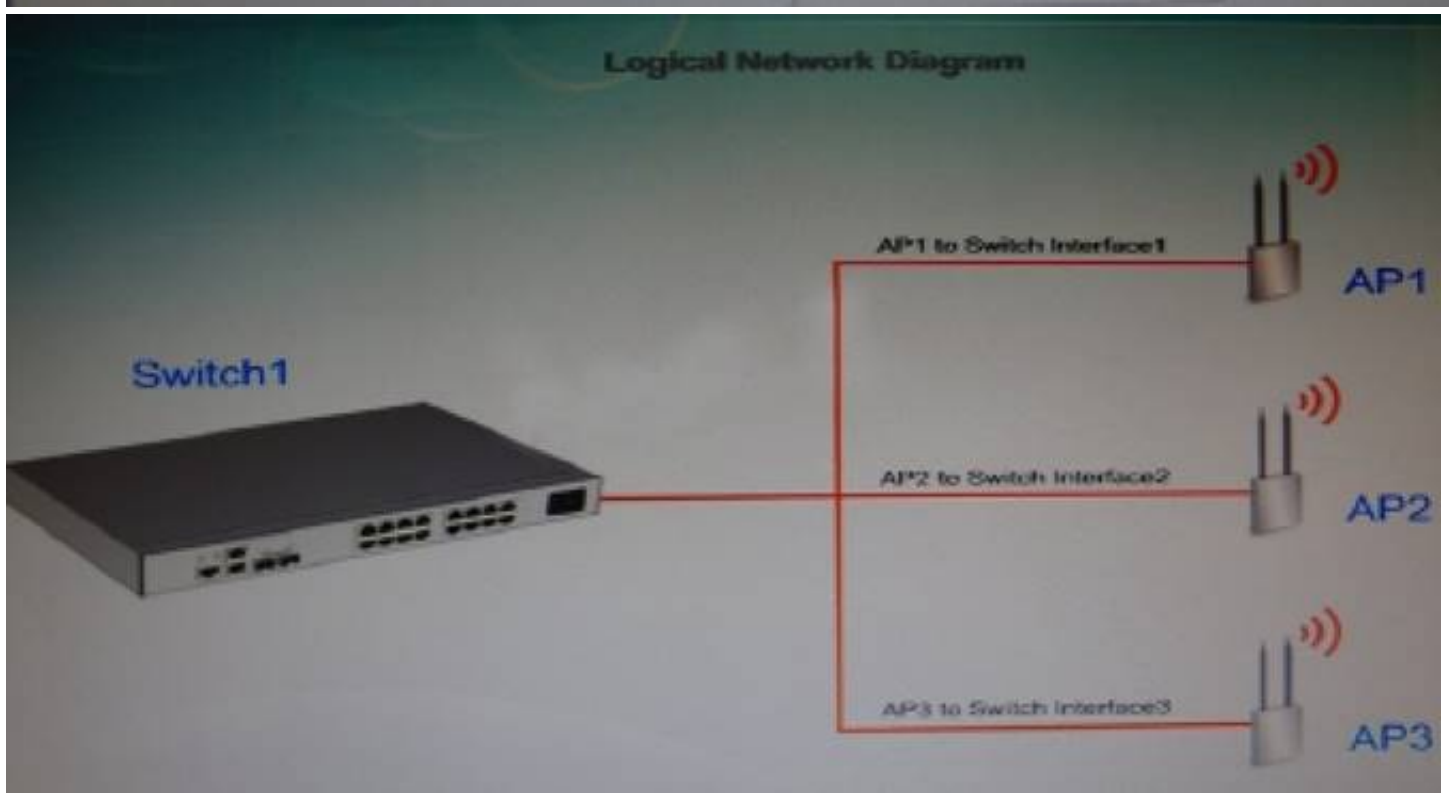
NEW QUESTION 278
CORRECT TEXT
Wireless network users recently began experiencing speed and performance issues after access point 2 (AP2) was replaced due to faulty hardware. The original network was installed according to a consultant's specifications and has always worked without a problem.
You a network 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: AP1
IP Address: 192.168.100.151 / 24
Gateway: 192.168.100.1
SSID: CorpNET
SSID Broadcast: Yes No
Wireless
Mode: G
Channel: 1
Wired
Speed: Auto 100 1000
Duplex: Auto Half Full
Security
Security Settings: None WEP WPA
Key or Passphrase: 1234567890
Reset
Submit


Wireless AP Configuration Settings
Basic Configuration
Access Point Name: AP2
IP Address: 192.168.100.152 / 24
Gateway: 192.168.100.1
SSID: CorpNET
SSID Broadcast: Yes No
Wireless
Mode: B
Channel: 1
Wired
Speed: Auto 100 1000
Duplex: Auto Half Full
Security
Security Settings: None WEP WPA
Key or Passphrase: 1234567890
Reset
Submit





A. Mastered
B. Not Mastered

Answer: A

Explanation:
AP2 configuration is not correct. The wireless mode should be ‘G’ and channel should be ‘11’. For the wired interface, the speed should be set to 100 and duplex to ‘Full’. Click ‘Submit’.

NEW QUESTION 279
A user calls the helpdesk to report not being able to access network resources over the company’s Wi-Fi connection. During information gathering, the user mentions that the wireless network their computer is signed into is not the same name as it had been previously. Which of the following is the underlying cause?

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

Answer: A

NEW QUESTION 284
A user moves from one office to another. When the user logs onto their computer, it has local access to shared drives but no Internet access. A technician determines that the computer has an IP address in the wrong subnet. Which of the following is MOST likely the cause?

A. Incorrect VLAN

B. MTU mismatch
C. Hijacked HOSTS file
D. Missing routes

Answer: A

NEW QUESTION 289
A user is unable to communicate with any local network resources, but is connected to the wireless network and can access the Internet. The network technician notices that the laptop has an incorrect IP address, even though it shows it is connected. Which of the following is the MOST likely cause?

A. Signal strength
B. Interference
C. AP placement
D. Incorrect SSID

Answer: D

NEW QUESTION 294
Which of the following DHCP options is used to exclude IP addresses from being distributed to other computers?

A. Reservations
B. Suffixes
C. Leases
D. Gateways

Answer: A

NEW QUESTION 298
A user is trying to connect to the wireless network in the office but is unable to establish a consistent connection. The computer alternates connecting between several similarly configured access points. Which of the following would be the BEST way to address this issues?

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

Answer: A

NEW QUESTION 302
After deploying a network switch, the network administrator is unable to remotely administer the device. The network administrator notices that the switch has the following configuration. Which of the following is the MOST likely cause of this issue?
Management LAN: 192.168.10.0/24
Management interfacE. 192.168.10.2 255.255.255.0
Default gateway: 192.168.11.1 STP is enabled

A. VLAN assignment
B. Wrong subnet mask
C. Switching loop
D. Wrong gateway

Answer: D

NEW QUESTION 303
Ann, a new user, is unable to communicate on the network from her computer. A technician has verified that the cables are functioning properly. Based on the information below, which action should the technician take to correct Ann's problem?
Computer_ASwitch_A IP: 10.0.0.60Int VLAN10
SM: 255.255.255.0IP address 10.0.0.1/28
GW: 10.0.0.1Speed 100 Duplex Full

A. Change the duplex on the switch interface to half
B. Change the speed on the switch interface to 10Mbps
C. Change the subnet mask of the computer to 255.255.255.240
D. Change the IP address of the computer to 10.0.0.12

Answer: D

NEW QUESTION 305
Which of the following is the reason why a company's network may contain a DHCP server?

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

Answer: A

NEW QUESTION 309
A network technician is designing a SOHO environment where cost is a consideration. The requirements include access to the Internet and access to the guest house which is 100 feet away. The location of the Internet modem is located in the main house. Which of the following is the BEST option to accomplish these requirements?

A. Use two combined Internet/router/wireless devices, one in each house.
B. Use a Layer 3 switch in the main house and a combined Internet/router/wireless device in the guest house.
C. Use a combined Internet/router/wireless device in the main house and a wireless access point in the guest house.
D. Use a single combined Internet/router/wireless device at the guest house.

Answer: C

NEW QUESTION 313
A technician would like to connect two separate LAN networks at a small business for a short period of time, to share files. The connection needs to be temporary, and is physically impossible using standard network cabling. Which of the following is the BEST way to connect the networks in this situation?

A. Wireless repeater
B. Wireless bridge
C. Bluetooth
D. RADIUS server

Answer: B

NEW QUESTION 315
A network administrator needs to deploy seven equally spaced WAPs along an underground tunnel. Which of the following is the BEST channel design to avoid interference?

A. 1, 3, 5, 7, 9, 11, 1
B. 1, 6, 11, 1, 1, 6, 11
C. 1, 11, 1, 11, 1, 11, 1
D. 11, 1, 6, 11, 1, 6, 11

Answer: D

NEW QUESTION 318
A network administrator is configuring PXE boot to reimage a computer lab. Which of the following must be configured on the existing DHCP server to specify the IP address of the imaging server from which the clients must boot?

A. Scope
B. Reservation
C. Option
D. Lease

Answer: C

NEW QUESTION 323
During business hours, users at a small office are reporting that all of a sudden they are unable to reach any host on the Internet, but they can still use the network shares to transfer files within the office. Which of the following is the MOST likely cause of the outage?

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

Answer: B

NEW QUESTION 324
Which of the following antenna types has a flat circular radiation pattern?

A. Diversity
B. Yagi
C. Omni
D. Patch

Answer: C

NEW QUESTION 328
In a newly installed LAN, the network administrator receives many calls about intermittent or slow connectivity to the authentication server. Which of the following could cause this problem? (Select TWO).

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

Answer: CE

NEW QUESTION 332
An office has an 802.11a access point. A technician has been asked to identify devices that are compatible with this AP. Which of the following devices is MOST likely compatible?

A. An 802.1q SOHO router
B. An 802.11b tablet computer
C. An 802.11g laptop
D. An 802.11n smartphone

Answer: D

NEW QUESTION 333
Users are contacting the internal helpdesk, stating that they are having difficulty staying connected to the wireless network. When the technician investigates, it is discovered that the users are having a problem using the wireless network in the company break rooms. Which of the following should the technician do FIRST?

A. Install a new access point in each break room to provide adequate coverage.
B. Remount the access points to a place on the ceiling closer to the break rooms.
C. Unplug appliances (e.
D. microwaves) to see if they are causing interference.
E. Change the encryption on the access points from WPA2 to WEP.

Answer: C

NEW QUESTION 337
A small office is looking to deploy wireless to cover one half of the work area only. The technician is restricted to suspending the WAP in the middle of the office due to network jack limitations. Which of the following antenna types would BEST meet these requirements?

A. Dipole
B. Parabolic
C. Directional
D. Omni-directional

Answer: C

NEW QUESTION 339
A computer configured by DHCP has a listed DNS server and gateway. Which of the following allows these settings to be configured?

A. Reservations
B. Leases
C. Scopes
D. Options

Answer: D

NEW QUESTION 340
Which of the following do DHCP servers provide to requesting devices on the network? (Select TWO).

A. Encryption
B. Leases
C. SSID
D. Channels
E. Suffixes
F. VLAN assignments

Answer: BE

NEW QUESTION 345
Which of the following is a value that can be received from a DHCP server?

A. Bootp server address
B. SMTP server address
C. WWW server address
D. VPN server address

Answer: A

NEW QUESTION 350
Joe, a network technician, is asked to install a couple new WAP’s inside a back warehouse that was added to a main warehouse facility that already has complete wireless coverage on both the 2.4GHz and 5GHz frequencies. Joe already has a complete wireless heat map of the main warehouse. Which of the following is the first step that Joe should do before choosing which WAP’s to use?

A. Conduct a wireless survey of the back warehouse.
B. Ask the vendor that provided the WAP’s for the main warehouse for recommendations.

C. Ask the systems administrator which WAP's are preferred.
D. Only order WAP's that support 5GHz channels.

Answer: A

NEW QUESTION 352
Joe, a network technician, is tasked with setting up a new wireless network in an office for office laptops and desktops only. The surrounding offices already have many wireless networks. Joe discovered that over 30 wireless networks were showing up as he completed a wireless survey of the office. Every single one of the networks that Joe was able to see while conducting the wireless survey were 802.11b/g networks. Which of the following should Joe consider before purchasing/installing the new wireless access points?

A. Move the WAP so that it is close to the interior walls.
B. Determine which wireless channels and bands to use to mitigate as much interference as possible.
C. Turn the SSID broadcasts off to decrease interference.
D. Determine if the business should relocate to a building with a lot less surrounding wireless networks.

Answer: B

NEW QUESTION 357
A network has a large number of users who connect for short periods of time and the network needs to maximize the number of devices that can be configured using DHCP. Which of the following should be configured to solve this issue?

A. Increase the number of reservations
B. Increase exclude list
C. Decrease lease times
D. Decrease the scope

Answer: C

NEW QUESTION 360
A technician is implementing a wireless network at a small business. The business already has a certificate authority and RADIUS server that they would like the technician to integrate with the wireless network. Additionally, the business would like to utilize their legacy 802.11b TKIP printers. Which of the following configurations should the technician use?

A. 802.11a with WPA2-Enterprise
B. 802.11n with WPA-PSK
C. 802.11n with WPA2-PSK
D. 802.11g with WPA-Enterprise

Answer: D

NEW QUESTION 365
A technician is troubleshooting a network camera. The technician restarted the modem and now the camera is no longer available from a mobile device. Which of the following has MOST likely occurred?

A. The public IP address of the network has changed.
B. The camera has received a new firmware update.
C. The camera's secure shell has been disabled.
D. The router has changed the IP of the mobile device.

Answer: A

NEW QUESTION 366
A new technician has moved the wireless access point from the middle of the office to an area near a corner office. Wireless users are MOST likely to experience issues with which of the following?

A. Signal strength
B. SSID mismatch
C. Channel mismatch
D. Encryption mismatch

Answer: A

NEW QUESTION 369
A technician has determined that calls placed over a wireless connection are breaking up and the speaker's voices are delayed. This is making conversation difficult. This is a symptom of which of the following network issues?

A. Latency
B. Bad GBIC
C. Bad SFP
D. SSID mismatch

Answer: A

NEW QUESTION 373

A user informs the network administrator of increasingly common wireless connection problems. The administrator determines the user has recently received a new cordless phone. The phone is MOST likely causing which of the following conditions?

A. Signal strength latency
B. Bouncing signal
C. Interference
D. Crosstalk

Answer: C

NEW QUESTION 378
A technician is troubleshooting a desktop computer that will not power on. After replacing the power supply, the technician tries to start the desktop, but it still fails to power on. Which of the following troubleshooting steps should the technician do NEXT?

A. Question users to determine if anything has changed
B. Re-establish theory of probable cause
C. Escalate problem to upper management
D. Document replacement of power supply

Answer: B

NEW QUESTION 382
An administrator would like to get more speed out of a wireless network. The administrator decides to configure the AP with a frequency width of 40MHz. Which of the following features is the administrator MOST likely using?

A. MIMO
B. AP isolation
C. Channel bonding
D. Burst mode

Answer: C

NEW QUESTION 386
A technician is installing a PoE switch for VoIP phones. Which of the following is the technician MOST likely going to configure on the switch?

A. NAT
B. QoS
C. PAT
D. DHCP

Answer: B

NEW QUESTION 390
A technician installs a wireless router on an existing network by connecting it directly to the firewall. By default, the main network is a Class A network, while the wireless network is a Class C network. After the wireless router is installed, users connected to the wireless network report they are unable to connect to the Internet. Which of the following needs to be configured to BEST resolve this issue?

A. Configure the main network to Class C
B. Allow for duplicate IP addresses
C. Allow the main network to handle DHCP
D. Create a spanning tree to prevent switching loops

Answer: C

NEW QUESTION 394
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.

Answer: D

Explanation:
Cat 5 is a twisted pair cable for carrying signals. This type of cable is used in structured cabling for computer networks such as Ethernet. The cable standard provides performance of up to 100 MHz and is suitable for 10BASE-T, 100BASE-TX (Fast Ethernet), and 1000BASE-T (Gigabit Ethernet).

NEW QUESTION 397
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

Answer: D

Explanation:
Cat 5e is a twisted pair cable for carrying signals. This type of cable is used in structured cabling for computer networks such as Ethernet. The cable standard provides performance of up to 100 MHz and is suitable for 10BASE-T, 100BASE-TX (Fast Ethernet), and 1000BASE-T (Gigabit Ethernet).

NEW QUESTION 401
A user does not have network connectivity. While testing the cable the technician receives the below reading on the cable tester:
1----------1
2----------2
3----------3
4----------4
5----------5
6----------6
7----------7
8----------8
Which of the following should the technician do NEXT?

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

Answer: D

Explanation:
Incomplete/Incorrect Question.

NEW QUESTION 404
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

Answer: A

Explanation:
A cable certifier is used to verify that a cable meets its specifications such as the bandwidth and frequency. For example, it can verify a CAT 5e cable meets specifications and supports speeds of 1000Mbps.

NEW QUESTION 409
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

Answer: B

Explanation:
* 802.11n builds upon previous 802.11 standards by adding multiple-input multiple- output (MIMO). The additional transmitter and receiver antennas allow for increased data throughput through spatial multiplexing and increased range by exploiting the spatial diversity through coding schemes like Alamouti coding. The speed is 150 Mbit/s (even 250 Mbit/s in PHY level)

NEW QUESTION 413
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

Answer: D

Explanation:
Shielded twisted pair is a special kind of copper telephone wiring used in some business installations. An outer covering or shield is added to the ordinary twisted pair telephone wires; the shield functions as a ground.
Twisted pair is the ordinary copper wire that connects home and many business computers to the telephone company. To reduce crosstalk or electromagnetic induction between pairs of wires, two insulated copper wires are twisted around each other. Each signal on twisted pair requires both wires

NEW QUESTION 414
Which of the following wireless standards provide speeds up to 150Mbps?

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

Answer: D

Explanation:
* 802.11n builds upon previous 802.11 standards by adding multiple-input multiple- output (MIMO). The additional transmitter and receiver antennas allow for increased data throughput through spatial multiplexing and increased range by exploiting the spatial diversity through coding schemes like Alamouti coding. The speed is 150 Mbit/s (even 250 Mbit/s in PHY level)

NEW QUESTION 419
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

Answer: B

Explanation:
Short for main distribution frame, a cable rack that interconnects and manages the telecommunications wiring between itself and any number of IDFs. Unlike an IDF, which connects internal lines to the MDF, the MDF connects private or public lines coming into a building with the internal network.

NEW QUESTION 420
Multiple computers are connected to a hub near a wall plate. In order to get to the computers, students step on and around the cable that connects the teacher's station, a few feet away, to the same hub. The teacher is experiencing no network connectivity. Which of the following is MOST likely the problem?

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

Answer: B

Explanation:
A split cable is invisible to wire maps and continuity testers, making it very difficult to troubleshoot.

NEW QUESTION 422
Which of the following supports faster wireless broadband speeds?

A. Satellite
B. Wi-MAX
C. ISDN
D. OC-3

Answer: B

Explanation:
Wi-MAX (Worldwide Interoperability for Microwave Access) is
a wireless communications standard designed to provide 30 to 40 megabit-per-second data rates with the 2011 update providing up to 1 G bit/s for fixed stations

NEW QUESTION 424
Ann, a home user, wishes to confine a wireless network to devices ONLY inside of her house. Which of the following will accomplish this?

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

Answer: A

Explanation:
Decreasing Radio Strength will reduce signal strength outside the house and will accomplish what she is intending to do.

NEW QUESTION 426
Which of the following fiber types is MOST often used indoors?

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

Answer: C

Explanation:
Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a campus. Typical multimode links have data rates of 10 Mbit/s to 10 Gbit/s over link lengths of up to 600 meters (2000 feet) and 10 Gbit/s for 300m (1000 feet) — more than sufficient for the majority of premises applications.

NEW QUESTION 428
Users are reporting wired connectivity drops in a new office with brand new CAT6 infrastructure. Which of the following tools should a technician use to BEST troubleshoot this issue?

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

Answer: D

Explanation:
A cable certifier is an electronic device used to verify the source of electric current, voltage and a switching matrix used to connect the current source and the volt meter to all of the contact points
in a cable.

NEW QUESTION 433
Which of the following WAN technology types has the GREATEST latency?

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

Answer: C

Explanation:
Because satellites provide a microwave radio relay technology complementary to that of communication cables. They are also used for mobile applications such as communications to ships, vehicles, planes and hand-held terminals, and for TV and radiobroadcasting.

NEW QUESTION 436
Multiple networked devices running on the same physical hardware that provide central access to applications and files, where each device runs as a piece of software are known as:

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

Answer: D

Explanation:
A Virtual server, usually a Web server, that shares computer resources with other virtual servers. In this context, the virtual part simply means that it is not a dedicated server -- that is, the entire computer is not dedicated to running the server software

NEW QUESTION 441
Which of the following is the Telco end of a T1 demarc?

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

Answer: A

Explanation:
Smartjacks provides diagnostic capabilities. A very common capability provided by a smartjack is loopback, such that the signal from the telephone company is transmitted back to
the telephone company. This allows the telephone company to test the line from the central office, without the need to have test equipment at the customer site. The telephone company usually has the ability to remotely activate loopback, without even needing personnel at the customer site. When looped back, the customer equipment is disconnected from the line.

NEW QUESTION 445
Which of the following WAN technologies uses an analog phone line to transmit data?

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

Answer: B

Explanation:
DSL is a high-speed Internet service like cable Internet. DSL provides high-speed networking over ordinary phone lines using broadband modem technology. DSL technology allows Internet and telephone service to work over the same phone line without requiring customers to disconnect either their voice or Internet connections.

NEW QUESTION 450
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

Answer: AF

Explanation:
A variety of optical fiber connectors are available, but SC and LC connectors are the most common types of connectors on the market.[citation needed] Typical connectors are rated for 500–1,000 mating cycles. The main differences among types of connectors are dimensions and methods of mechanical coupling. Generally, organizations will standardize on one kind of connector, depending on what equipment they commonly use. Different connectors are required for multimode, and for single-mode fibers

NEW QUESTION 455
Which of the following would be used to connect a singlemode fiber cable to a CAT6 connection?

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

Answer: A

Explanation:
Media converters support many different data communication protocols including Ethernet, Fast Ethernet, Gigabit Ethernet, T1/E1/J1, DS3/E3, as well as multiple cabling types such as coax, twisted pair, multi-mode and single-mode fiber optics.

NEW QUESTION 458
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.

Answer: D

Explanation:
The Category 6 cable, also known as Cat-6, is backward compatible with the Category 5/5 e and Category 3 cable standards. It can create a high speed computer network and operate at an optimal performance if other components in the network are compatible with gigabit speeds.
AdvantagE. Speed and Performance
The cable can handle speed performance of up to 250 MHZ. This fast performance makes it possible to use with a fast ethernet network including Gigabit Ethernet and 10-Gigabit Ethernet. The whole generation of the Cat 6 cable was introduced to complement the Gigabit Ethernet which includes interface cards, patch panels, routers, switches, and other components which is developed to achieve a full gigabit network. Many IT professionals realized that the Cat 6 cable provide very fast network performance and can deliver gigabit speeds.
AdvantagE. Similar Structure with Cat 5 Cable
Cat 6 cable has a similar structure to the Cat 5 and Cat 5e. The Cat 6, Cat 5 and Cat 5e cables have 8 wires that are twisted together to form four pairs. The difference is that one pair of the wires in the Cat 6 cable is kept from contacting with others so that it can produce double the bandwidth of the Cat 5 and Cat 5e.
AdvantagE. Backward Compatible
The plug and port of the Cat 6 cable is the same as the Cat 5 and Cat 5e. Therefore, it can be plugged into any port or connection that supports both of those cables. If you use the Cat 5 port, it will not yield the full speed that it is capable of handling. Instead, it will operate at the speed of the computer or cable. However, the speed will be acceptable.
AdvantagE. Upgradable
If upgrading to a more optimal network, the Cat 6 cable should be included in part of the upgrade. The Cat 6 cable will not operate at the full speed if other units in the network does not support gigabit speeds. Small businesses that are starting should consider installing the Cat 6 cable since
it is becoming the industry standard.

NEW QUESTION 459
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

Answer: D

Explanation:
* 802.11n is an amendment which improves upon the previous 802.11 standards by adding multiple-input multiple-output antennas (MIMO). 802.11n operates on both the 2.4 GHz and the lesser used 5 GHz bands

NEW QUESTION 460
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

Answer: B

Explanation:
A wireless controller is used in combination with the Lightweight Access Point Protocol (LWAPP) to manage light-weight access points in large quantities by the network administrator or network operations center. The wireless LAN controller is part of the Data Plane within the Cisco Wireless Model. The WLAN controller automatically handles the configuration of anywhere from 6 to 6000 wireless access-points, depending on the model.

NEW QUESTION 465
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

Answer: A

Explanation:
Toner® connects to any voice, data, or video cable to detect open/short circuits, continuity, AC/DC voltage* and dial tone* all while protecting up to 52 volt.

NEW QUESTION 470
Which of the following technologies is used on cellular networks?

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

Answer: B

Explanation:
CDMA is an example of multiple access, which is where several transmitters can send information simultaneously over a single communication channel. This allows several users to share a band of frequencies (see bandwidth). To permit this to be achieved without undue
interference between the users CDMA employs spread-spectrum technology and a special coding scheme

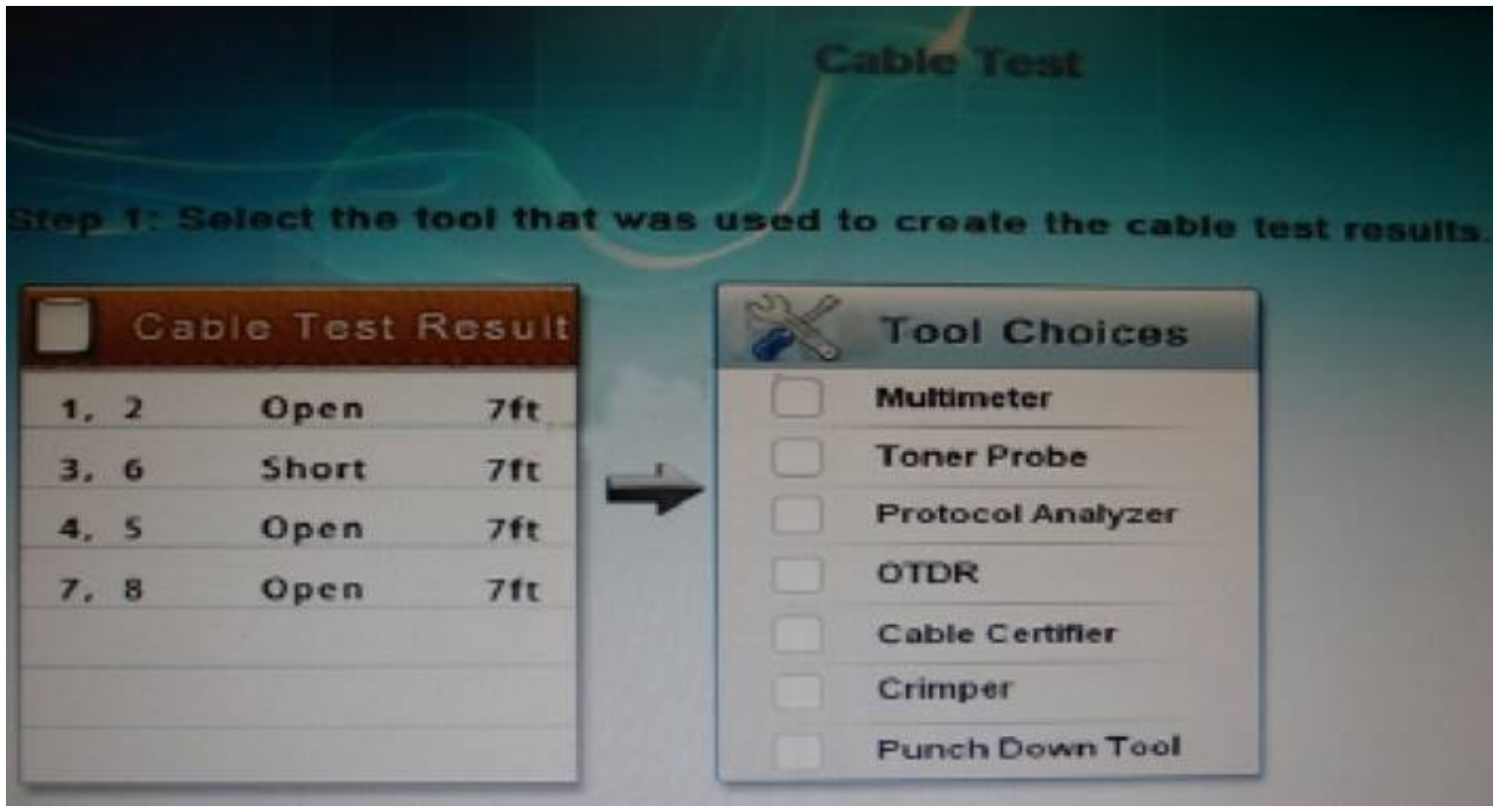
NEW QUESTION 475
Which of the following technologies is used to connect public networks using POTS lines?

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

Answer: C

Explanation:
The PSTN consists of telephone lines, fiber optic cables, microwave
transmission links, cellular networks, communications satellites, and undersea telephone cables, all interconnected by switching centers, thus allowing any telephone in the world to communicate with any other

NEW QUESTION 476
CORRECT TEXT
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.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Cable certifier – incorrectly crimped cable.

NEW QUESTION 479
Which of the following can operate on BOTH the 2.4GHz and 5.8GHz frequencies?

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

Answer: D

NEW QUESTION 483
Which of the following cable types is unshielded?

A. STP
B. Twinax
C. UTP
D. Coax

Answer: C

NEW QUESTION 488
A consultant has been hired to wire a simple small office of ten computers to a layer 2 Ethernet 100BaseT switch. Which of the following cabling will be needed for the installation?

A. Multimode fiber
B. RG-59 coaxial
C. CAT6a
D. CAT3

Answer: C

NEW QUESTION 493
Which of the following wireless standards can operate on the same frequency but are not compatible?

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

Answer: B

NEW QUESTION 497
The unit responsible for the successful shaping and transmission of a digital signal is called:

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

Answer: D

NEW QUESTION 500
In the event of a fire in an office building, which of the following cable types should be installed to prevent toxic gas from burning PVC cable coatings?

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

Answer: B

NEW QUESTION 504
Which of the following is a fiber connector type?

A. F-connector
B. RJ-11
C. RS-232
D. MTRJ

Answer: D

NEW QUESTION 506
Which of the following is MOST likely used with RG-6 media?

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

Answer: D

NEW QUESTION 508
Which of the following wireless standards is the only one capable of operating in any of the 802.11 wireless spectrums?

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

Answer: D

NEW QUESTION 513
Which of the following WAN technologies has the highest latency?

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

Answer: C

NEW QUESTION 516
The network administrator just upgraded all of the WAPs to new ones with 2.4 GHz b/g/n support. The new WAPs reuse the same location and channel as the previous one and with no new external interference detected. However, performance issues are now occurring that did not exist before. Which of the following would correct the issue?

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

Answer: B

NEW QUESTION 517
A user has three different subnets in an office. Which of the following can be configured to allow two of the subnets to communicate directly with each other at the switch level?

A. 802.1af
B. 802.1q
C. 802.1x
D. 802.2

Answer: B

NEW QUESTION 522
A technician has two wireless 802.11g APs. One is set to channel 1 and the other channel 6. The APs appear to interfere with each other. Which of the following is MOST likely the reason?

A. Channels below 9 overlap each other
B. Channel width is set to 40MHz
C. Channels are in the 5GHz range by mistake
D. Channel 1 should have been set to 11 to avoid an overlap

Answer: B

NEW QUESTION 523
Which of the following are standard fiber cable connector types? (Select TWO).

A. RJ-11
B. F-connector
C. MTRJ
D. DB-9
E. ST

Answer: CE

NEW QUESTION 525
Which of the following cable types is MOST commonly used with POTS?

A. CAT3
B. Multimode
C. CAT6
D. Coaxial

Answer: A

NEW QUESTION 527
A company is connected to an ISP, but owns the premise router with an internal CSU/DSU. Which of the following is considered the demarc?

A. Premise router
B. ISP router
C. Smart jack
D. CSU/DSU

Answer: C

NEW QUESTION 528
At which of the following locations does the responsibility of a Telco provider cease?

A. IDF
B. CSU
C. Demarc
D. MDF

Answer: C

NEW QUESTION 529
Which of the following cables has a hard plastic cross inside the cable to separate each pair of wires?

A. Coaxial
B. CAT3
C. CAT5
D. CAT6a

Answer: D

NEW QUESTION 531
Which of the following connectors is used on a coaxial cable?

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

Answer: A

NEW QUESTION 533
A small office needs to connect one new system to their network in a distant office, but does not have the resources to install a new Ethernet wall jack, and does not want to use wireless. Which of the following is a simple, cost effective option for providing connectivity?

A. SONET
B. Multimode fiber
C. 802.11n
D. Broadband over Power Line

Answer: D

NEW QUESTION 535
Which of the following defines the pinout of an 8P8C eight pin modular jack for a CAT6a cable?

A. 568B
B. RJ-11
C. RJ-45
D. RS-232

Answer: A

NEW QUESTION 538
Which of the following WAN technologies has a MAXIMUM speed of 155.52Mbps?

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

Answer: A

NEW QUESTION 543
A technician is troubleshooting a problem where data packets are being corrupted. Which of the following connectivity problems should the technician check?

A. Attenuation
B. Latency
C. Crosstalk
D. External interference

Answer: C

NEW QUESTION 547
Which of the following wiring distribution is used to connect wiring from equipment inside a company to carrier cabling outside a building?

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

Answer: C

NEW QUESTION 551
Which of the following network topologies describes a network where each node is connected to multiple devices?

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

Answer: A

NEW QUESTION 554
The cost of installing fiber cable in a factory environment is too high. Which of the following cables should be used to minimize the effect of EMI?

A. CAT6
B. UTP
C. Coaxial
D. Crossover

Answer: C

NEW QUESTION 556
Which of the following is rated for speeds over 800Mbps?

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

Answer: C

NEW QUESTION 559
Which of the following wireless standards has a MAXIMUM speed of only 1Mbps?

A. IrDA
B. 802.11b
C. 802.11g

Answer: C

NEW QUESTION 561
Which of the following cables would BEST be used to extend a network through an 80 feet (262 meters) machine shop that has many high voltage machines and generators running?

A. CAT5
B. CAT6
C. Coaxial
D. Fiber

Answer: D

NEW QUESTION 562
Which of the following wiring components is used as a central point of termination for all network jacks through a building area?

A. Demarc
B. CSU
C. Patch Panel
D. Smart Jack

Answer: C

NEW QUESTION 565
A technician installs a new CAT6 cable from one end of the office building to another, a total distance of 600 feet (182.88 meters). When a laptop is connected to the cable, it cannot connect to the Internet. Which of the following is MOST likely the cause of this problem?

A. Bad connectors
B. Crosstalk
C. DB loss
D. TXRX reversed

Answer: C

NEW QUESTION 570
Which of the following do 802.11 networks use to handle packet collisions from multiple nodes?

A. CSMA/CA
B. CSU/DSU
C. Ethernet Tokens
D. CSMA/CD

Answer: A

NEW QUESTION 572
A user needs maximum distance in a wireless connection. Which of the following should be configured to meet this goal?

A. 802.11a at 54Mbps
B. 802.11b at 1Mbps
C. 802.11g at 11Mbps
D. 802.11n at 130Mbps

Answer: B

NEW QUESTION 575

Which of the following types of cables would be used to connect a hub to a patch panel?

A. Straight-through cable
B. Crossover cable
C. T1 Crossover cable
D. Rollover cable

Answer: A

NEW QUESTION 580
Which of the following WAN technology types are mainly used over POTS lines to provide Internet connectivity? (Select TWO).

A. Dialup
B. DSL
C. SONET
D. Cable
E. WiMAX
F. LTE

Answer: AB

NEW QUESTION 584
Which of the following 802.11 standards can operate at both 2.4Ghz and 5.0Ghz?

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

Answer: D

NEW QUESTION 589
Which of the following types of technologies should be used to provide a MAXIMUM 10 GB speed to a multi-mode fiber network?

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

Answer: B

NEW QUESTION 590
An 802.11a wireless network is functioning at which of the following frequencies?

A. 1.0 GHz
B. 1.5 GHz
C. 2.4 GHz
D. 5.0 GHz

Answer: D

NEW QUESTION 592
A VoIP system running over a wireless network link is continually being reported as choppy. Which of the following is the cause of this issue?

A. Frequency
B. Latency
C. Interference
D. Encryption type

Answer: B

NEW QUESTION 595
A technician testing an Ethernet card uses a cable wired with pins 1,2 to pins 3,6 on the same RJ- 45 plug. Which of the following describes what the technician is using?

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

Answer: C

NEW QUESTION 600
A technician has been called about intermittent connectivity near IDF 2. Multiple cables were recently pulled through a common conduit. Which of the following is MOST likely the cause of the problem?

A. Crosstalk
B. Bad connectors
C. Wrong DNS
D. Duplicate IP address

Answer: A

NEW QUESTION 603
A network administrator wants to balance the amount of data between two networking cards. Which of the following can be used for two or more networking cards?

A. NIC bonding
B. Proxy server
C. Firewall ACLs
D. VLANs

Answer: A

NEW QUESTION 608
Which of the following allows 802.11n higher transfer speeds than the previous wireless standards?

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

Answer: C

NEW QUESTION 611
A network administrator needs to ensure there is no same channel interference for an 802.11n deployment with four WAPs. Which of the following channel setting configurations meets this criteria when using 40 MHz channels?

A. 36, 40, 44, 48
B. 36, 44, 52, 60
C. 36, 44, 48, 52
D. 36, 48, 60, 64

Answer: B

NEW QUESTION 614
In a small office environment, one computer is set up to provide Internet access to three other computers that are not interconnected. This is an example of which of the following topology types?

A. Peer-to-peer
B. Point-to-multipoint
C. Hybrid
D. Point-to-point

Answer: B

NEW QUESTION 616
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

Answer: D

Explanation:
As to prove the cause of problem documents need to be attached so document finding is the first step after we implemented and diagnosed that problem.

NEW QUESTION 618
A network technician is troubleshooting a user's connectivity problem, and has determined a probable cause. The technician is at which step in the troubleshooting methodology?

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

Answer: C

Explanation:
Establish a theory means to correlate the finding and cause of a problem in order to fix the problem.

NEW QUESTION 620
A technician decides to upgrade a router before leaving for vacation. While away, users begin to report slow performance. Which of the following practices allows other technicians to quickly return the network to normal speeds?

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

Answer: A

Explanation:
As soon as technician found a problem he generates a change management request to make changes to fast up the speed of router.

NEW QUESTION 621
Which of the following would a network administrator recommend to satisfy fault tolerance needs within the datacenter?

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

Answer: D

Explanation:
For unintruppted power supply we need ups as from this no power issue will come and our systems will remain safe.

NEW QUESTION 622
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

Answer: D

Explanation:
To give every user same ip every time because we have to document that ip slot we use static ip configuration.

NEW QUESTION 627
A technician is troubleshooting a computer that will not connect to the Internet. The PC is connected to the network. Which of the following tools should the technician use FIRST to understand the NIC configuration?

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

Answer: B

Explanation:
ipconfig is a commmand line utility available on all versions of Microsoft Windows starting with Windows NT. ipconfig is designed to be run from the Windows command prompt. This utility allows you to get the IP address information of a Windows computer. It also allows some control over active TCP/IP connections. ipconfig is an alternative to the older 'winipcfg' utility.

NEW QUESTION 630
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

Answer: A

Explanation:
Secure Shell is a cryptographic network protocol for secure data communication, remote command-line login, remote command execution, and other secure network services between two networked computers.

NEW QUESTION 635
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.

Answer: C

Explanation:
As first theorey doesn't work he will establish a new theorey or escalate it to the vendor hardware company to work on it.

NEW QUESTION 640
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

Answer: A

Explanation:
Port no. 25 is assigned to smtp as documented by iana.

NEW QUESTION 641
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

Answer: C

Explanation:
Network sniffer is a computer program or a piece of computer hardware that can intercept and log traffic passing over a digital network or part of a network. As data streams flow across the network, the sniffer captures each packet and, if needed, decodes the packet's raw data, showing the values of various fields in the packet, and analyzes its content according to the appropriate RFC or other specifications.

NEW QUESTION 646
A user has network connectivity per the link lights on the NIC, but cannot access any network resources or the Internet. Which of the following commands should the technician run FIRST?

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

Answer: B

Explanation:
As from ipconfig command technician will come to know wheather he has assigned right ip address to NIC or not.

NEW QUESTION 651
A NAS appliance has had a failed NIC replaced. Now the NAS appliance is no longer visible on the network. Which of the following is the MOST likely cause of the problem?

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

Answer: C

Explanation:
As by port security switch find the changes in mac address because nic is replaced so due to security reason switch shut that port.

NEW QUESTION 653
A large company has experienced Internet slowdowns as users have increased their use of the Internet. Which of the following can the Network Administrator use to determine the amount of bandwidth used by type of application?

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

Answer: B

Explanation:
By traffic analysis administrator will come to whether user are using bandwidth for right purpose or not.

NEW QUESTION 658
A network administrator wants to see what ports are open on a server. Which of the following commands will show open ports?

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

Answer: A

Explanation:
Netstat command displays various network related information such as network connections, routing tables, interface statistics, masquerade connections, multicast memberships etc.

NEW QUESTION 663
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

Answer: D

Explanation:
The Nbstat command is a great command to use when you need to display the NetBIOS over TCP/IP protocol statistics. The Nbstat command can also be used to display NetBIOS name tables for both local and remote computers.

NEW QUESTION 668
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

Answer: C

Explanation:
By Qos we can prioritize the voice packets over data network.So delay and latency will get reduce.

NEW QUESTION 671
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

Answer: CE

NEW QUESTION 673
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

Answer: C

Explanation:
By dig command technician will come to know wheather name resolution is happening in correc way or not.

NEW QUESTION 675
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

Answer: D

Explanation:
By doing MAC filtering technician can block the data coming from a specific mac address.

NEW QUESTION 679
An organization finds that most of the outgoing traffic on the network is directed at several Internet sites viewed by multiple computers simultaneously. Which of the following performance optimization methods would BEST alleviate network traffic?

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

Answer: D

Explanation:
A cache server is a dedicated network server or service acting as a server that saves Web pages or other Internet content locally. By placing previously requested information in temporary storage, or cache, a cache server both speeds up access to data and reduces demand on an enterprise's bandwidth.

NEW QUESTION 680
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

Answer: A

Explanation:
As traffic shaping will prioritize the video packets over another packets and then video packets will travel fast on bandwidth.

NEW QUESTION 685
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.

Answer: C

Explanation:
As if we will create a vlan for sip and rtp traffic only this traffic will flow from the ports then .

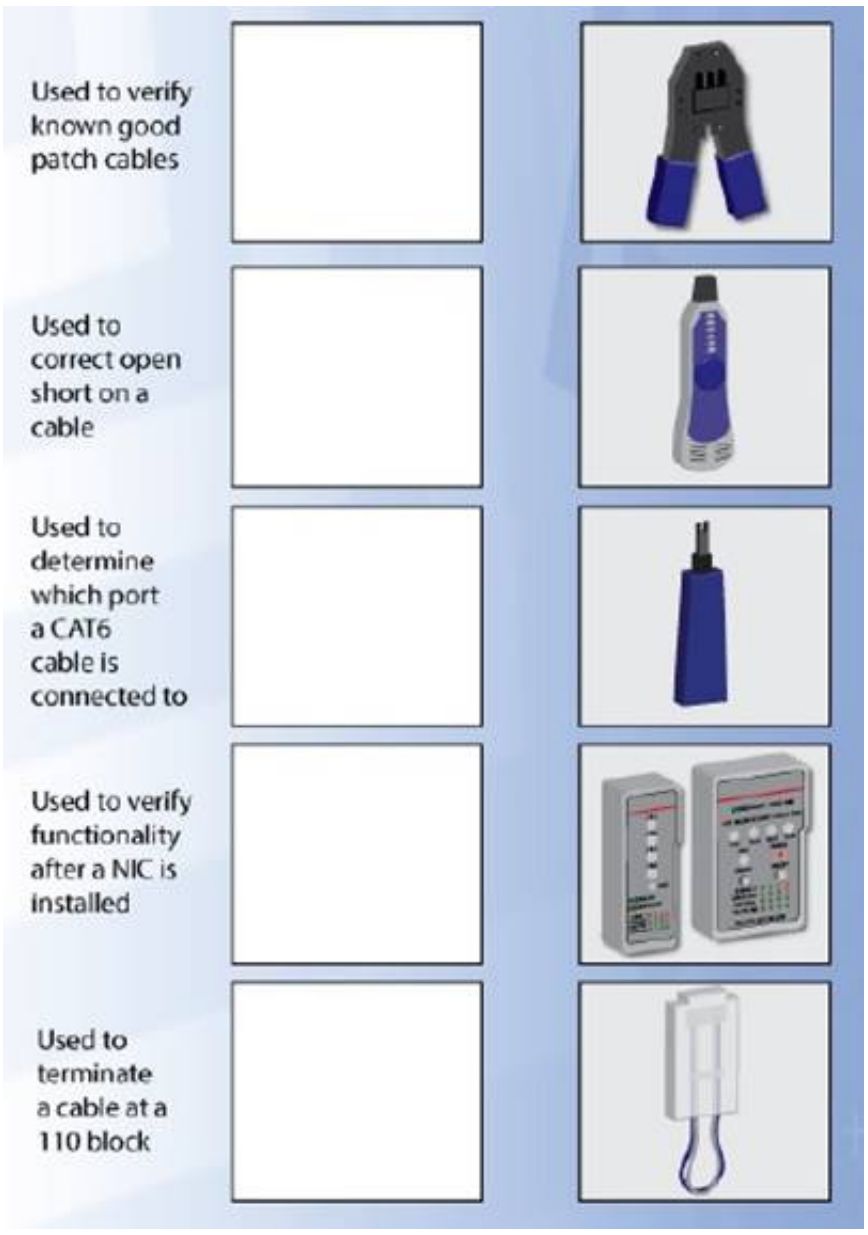
NEW QUESTION 688
Which of the following is the control when observing network bandwidth patterns over time?

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

Answer: B

Explanation:
To successfully baseline a network it is important to consider two functions; performance at protocol level and performance at application level. There are many significant metrics to consider at the protocol level, but only a few which are critical. The most important is bandwidth utilization
compared with bandwidth availability. The most likely cause of poor network performance is insufficient bandwidth. Trending bandwidth utilization allows you to recognize problem areas, provide enough bandwidth to reach performance objectives, and predict future capacity requirements. Changes in bandwidth utilization patterns also provide a clear indication of network usage alterations, such as a change in end-user behavior, or the unauthorized addition of an application.

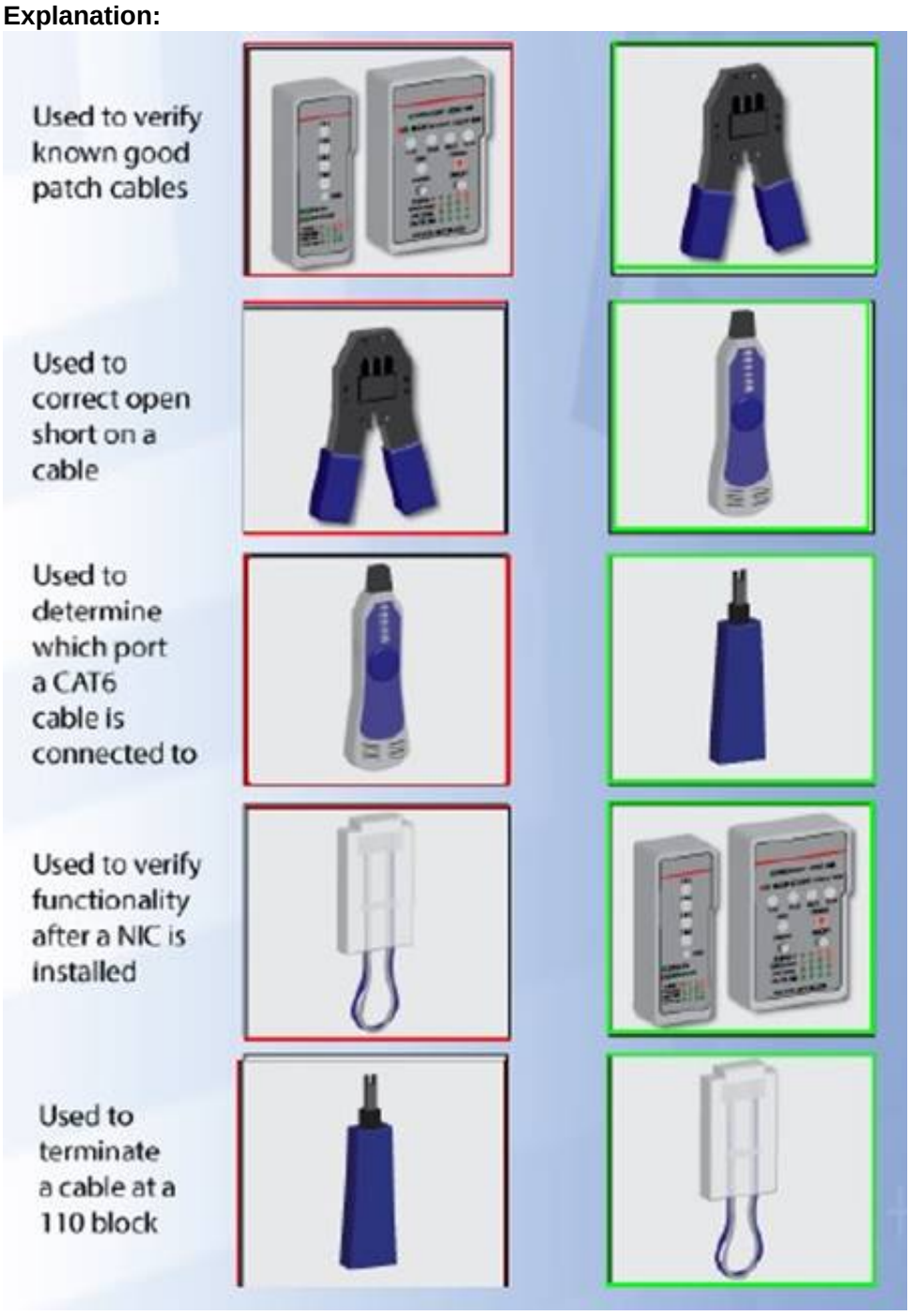
NEW QUESTION 690
DRAG DROP
Drag and drop each networking tool to the MOST appropriate descriptor. Each tool may only be used once.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 691
Which of the following can assist when troubleshooting a cable that meets the 1000BaseLX specification?

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

Answer: B

NEW QUESTION 693
Which of the following tools allows an administrator to identify a cable?

A. Multimeter
B. Cable stripper
C. Toner
D. Punch down tool

Answer: C

NEW QUESTION 696
An administrator would like to decrease the load time of common websites that employees review daily. Which of the following can be installed?

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

Answer: C

NEW QUESTION 697
Which of the following security devices can receive and process HTTP requests from hosts to allow or deny traffic for web browsing purposes only?

A. Load balancer
B. VPN concentrator
C. Proxy server
D. DNS server

Answer: C

NEW QUESTION 699
A technician is unable to easily trace physical connections within a network rack. Which of the following practices would save time in the future?

A. Change management
B. Cable management
C. Asset management
D. Setting baselines

Answer: B

NEW QUESTION 703
Which of the following syslog severity codes indicates an emergency and that the system is unusable?

A. 1
B. 6
C. 7

Answer: A

NEW QUESTION 708
An administrator is attempting to troubleshoot a program that is unable to resolve IP addresses from FQDNs. Which of the following commands is used to check reverse DNS settings?

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

Answer: A

NEW QUESTION 709
A network is having problems with traffic flowing to several critical websites that are used for necessary company work. Which of the following appliances would BEST handle network traffic to increase network performance?

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

Answer: B

NEW QUESTION 710
Which of the following should be installed to prevent inappropriate websites from being viewed?

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

Answer: C

NEW QUESTION 711
A technician is having issues accessing the Internet from the workstation. They are able to ping the DNS server and their default gateway. Which of the following commands can be used to verify

A. nslookup
B. netstat
C. traceroute
D. nbtstat

Answer: A

NEW QUESTION 716
A company has gone through several upgrades on their network but unfortunately have no way of identifying who approved the upgrades. Which of the following should be implemented to track this type of work?

A. Change management
B. Asset management
C. Access log
D. Baselines

Answer: A

NEW QUESTION 718
A network technician is trying to run a protocol analyzer and is instructed to record the chimney offload state of TCP. Which of the following utilities did the technician use to check this parameter with the output listed below?
Querying active state... TCP Global Parameters

Receive-Side Scaling State : enabled Chimney Offload State : disabled
Receive Window Auto-Tuning Level : normal Add-On Congestion Control Provider : ctcp ECN Capability : disabled
RFC 1323 Timestamps : disabled

A. net
B. netstat
C. nbtstat
D. netsh

Answer: D

NEW QUESTION 719
Which of the following commands would be used to identify how many hops a data packet makes before reaching its final destination?

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

Answer: C

NEW QUESTION 721
Which of the following commands can be used on a server to display IP information for a given interface?

A. nbtstat
B. dig
C. ifconfig
D. msconfig

Answer: C

NEW QUESTION 722

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

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

Answer: A

NEW QUESTION 724
It has been suspected that one of the users is using the network inappropriately. As a preventive measure HR has authorized the IT department to enable port mirroring on the user's network port. Which of the following devices would be used to monitor the network activity?

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

Answer: C

NEW QUESTION 727
Which of the following can a technician use when a company implements redundant WAN links?

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

Answer: B

NEW QUESTION 732
An administrator has added QoS settings to the LAN switches prioritizing RTP. Which of the following systems is the Administrator MOST concerned with in this scenario?

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

Answer: A

NEW QUESTION 734
The day network administrator is having problems on the network and realizes that the night administrator implemented a new device that is causing broadcast traffic. Which of the following should be implemented to avoid miscommunication between the administrators?

A. Asset management
B. System baselines
C. System logging
D. Change management

Answer: D

NEW QUESTION 738
An IT manager is looking for a solution that can easily trace back suspicious Internet browsing to particular users at a company. Which of the following can BEST provide this functionality?

A. Layer 3 managed switch
B. VPN concentrator
C. Load balancer
D. Content filter

Answer: D

NEW QUESTION 743
A company has been just opened a new site in another country. Both sites share information across the WAN continuously throughout the business day. Which of the following should be implemented to ensure both sites are accessible?

A. Traffic shaping
B. QoS
C. Caching engines
D. High availability

Answer: D

NEW QUESTION 745

A technician is upgrading the wiring in an older office building. The building currently contains some CAT3, CAT5, and CAT6 cables. The technician cannot visually distinguish between the cables because they are all the same color. Which of the following tools would help the technician determine which wires are the CAT3 and CAT5 cables needing to be replaced with CAT6 ones?

A. Cable certifier
B. Toner probe
C. Cable tester
D. Crimper

Answer: A

NEW QUESTION 748
A network technician is sent to troubleshoot a phone line in the building. The user reports a dial tone is not available when attempting to place a call. Which of the following tools should the technician utilize in this scenario?

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

Answer: D

NEW QUESTION 751
Various desktop computers are not getting a link light even though the patch cables were replaced. Cables on a 110-block patch panel are suspected to be causing the issues. Which of the following hardware tools would MOST likely be used to troubleshoot and resolve the issue? (Select TWO).

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

Answer: AC

NEW QUESTION 755
A user is having trouble with their fax machine disconnecting during transmissions. The technician believes that a DSL signal may be on the same line as the fax. Which of the following tools would MOST likely help prove this hypothesis?

A. Multimeter
B. Cable tester
C. Lineman's handset
D. Toner probe

Answer: C

NEW QUESTION 757
Which of the following tools would a technician use to determine if a CAT6 cable is properly terminated?

A. Cable tester
B. Punch down tool
C. Crimper
D. Multimeter

Answer: A

NEW QUESTION 761
An IP camera has a failed PoE NIC. This is the third time in months that a PoE NIC has failed on this device. The technician suspects a possible power issue. Which of the following should be used to test the theory?

A. Toner probe
B. Loopback plug
C. Protocol analyzer
D. Multimeter

Answer: D

NEW QUESTION 764
There has been an increase in Help Desk tickets related to web portal user accounts being locked out. Which of the following resources would be used to analyze the issue?

A. Router logs
B. Protocol analyzer
C. Firewall logs
D. Application logs

Answer: D

NEW QUESTION 768
A technician has to terminate a CAT3 cable to a 110 block. Which of the following tools should the technician use?

A. Loopback plug
B. Multimeter
C. Punch down
D. Crimper

Answer: C

NEW QUESTION 770
Which of the following configuration management documents is used to describe how a computer performs after initial installation onto a network?

A. Baseline
B. Network map
C. Asset management
D. Installation guide

Answer: A

NEW QUESTION 775
When implementing video streaming from the Internet to an always on device, it is best to employ which of the following services to minimize latency issues?

A. QoS
B. EIGRP
C. PPTP
D. OSPF

Answer: A

NEW QUESTION 778
A technician is having trouble identifying a computer on a network. The technician has the IP address of the computer, but needs to find the hostname of the computer. Which of the following commands should the technician use?

A. ipconfig /a
B. ping -t
C. ping -a

Answer: C

NEW QUESTION 779
A public website using round robin DNS is an example of:

A. load balancing
B. QoS
C. Caching engines
D. Traffic shaping

Answer: A

NEW QUESTION 782
A technician sets up a network with multiple WAN connections, backup power sources, multiple firewalls, and a mesh configuration for network switching. All of the software and hardware has fault detection designed to provide a system with minimal down time. Which of the following is the BEST example of this optimization method?

A. Load balancing
B. High availability
C. Caching engines
D. Quality of Service

Answer: B

NEW QUESTION 783
Which of the following devices allows for multiple web servers to host the same web page and for traffic to be distributed between them according to some metric?

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

Answer: C

NEW QUESTION 788
An administrator can use packet tags to configure which of the following?

A. VLAN
B. NAT
C. PoE
D. QoS

Answer: D

NEW QUESTION 789
Which of the following can be used to decrypt SSL packets which encapsulate internal network addresses in the payload?

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

Answer: D

NEW QUESTION 794
A network administrator currently collects log files from several different servers. Which of the following would allow the network administrator to collect log files on a centralized host?

A. The network administrator should install and configure a traffic analysis server.
B. The network administrator should install and configure a DMZ server.
C. The network administrator should install and configure a syslog server.
D. The network administrator should install and configure a network sniffer.

Answer: C

NEW QUESTION 797
The security administrator needs to restrict specific devices from connecting to certain WAPs. Which of the following security measures would BEST fulfill this need?

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

Answer: B

Explanation:
MAC Filtering (or EUI filtering, or layer 2 address filtering) is a security access control method whereby the 48-bit address assigned to each network card is used to determine access to the network.

NEW QUESTION 801
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

Answer: C

Explanation:
Firewall rules block or allow specific traffic passing through from one side of the router to the other. Inbound rules (WAN to LAN) restrict access by outsiders to private resources, selectively allowing only specific outside users to access specific resources. Outbound rules (LAN to WAN) determine what outside resources local users can have access to.

NEW QUESTION 805
Which of the following can a network technician change to help limit war driving?

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

Answer: A

Explanation:
War driving is a term used to describe the process of a hacker who, armed with a laptop and a wireless adapter card and traveling via a car, bus, subway train, or other form of mechanized transport, goes around sniffing for WLANs. Over time, the hacker builds up a database comprising the network name, signal strength, location, and ip/namespace in use..

NEW QUESTION 810
Which of the following uses SSL encryption?

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

Answer: C

Explanation:
HTTPS is the result of simply layering the Hypertext Transfer Protocol (HTTP) on top of the SSL/TLS protocol, thus adding the security capabilities of SSL/TLS to standard HTTP communications.

NEW QUESTION 813
A customer wants to increase firewall security. Which of the following are common reasons for implementing port security on the firewall? (Select TWO).

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

Answer: CD

Explanation:
Port security is required because if we keep the ports unsecure then hackers can do port scanning and can compromise the internal secured network so we will have to shield servers to avoid attacks from outside and we need to block incoming scanning request coming from outside.

NEW QUESTION 814
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