Exam CISCO-640-802 v12

1. What are two reasons that a network administrator would use access lists? (Choose two.)

A:to control vty access into a router B:to control broadcast traffic through a router C:to filter traffic as it passes through a router D:to filter traffic that originates from the router E:to replace passwords as a line of defense against security incursions **Correct Answers:** A, C

2. A default Frame Relay WAN is classified as what type of physical netw

- A: point-to-point
- B: broadcast multi-access
- C: nonbroadcast multi-access
- D: nonbroadcast multipoint
- E: broadcast point-to-multipoint

Correct Answers: C

3. A single 802.11g access point has been configured and installed in the center of a square office. A few wireless users are experiencing dow performance and drops while most users are operating at peak efficiency. What are three likely causes of this problem? (Choose three.)

A:mismatched TKIP empr B:null SSID

C:cordless pho

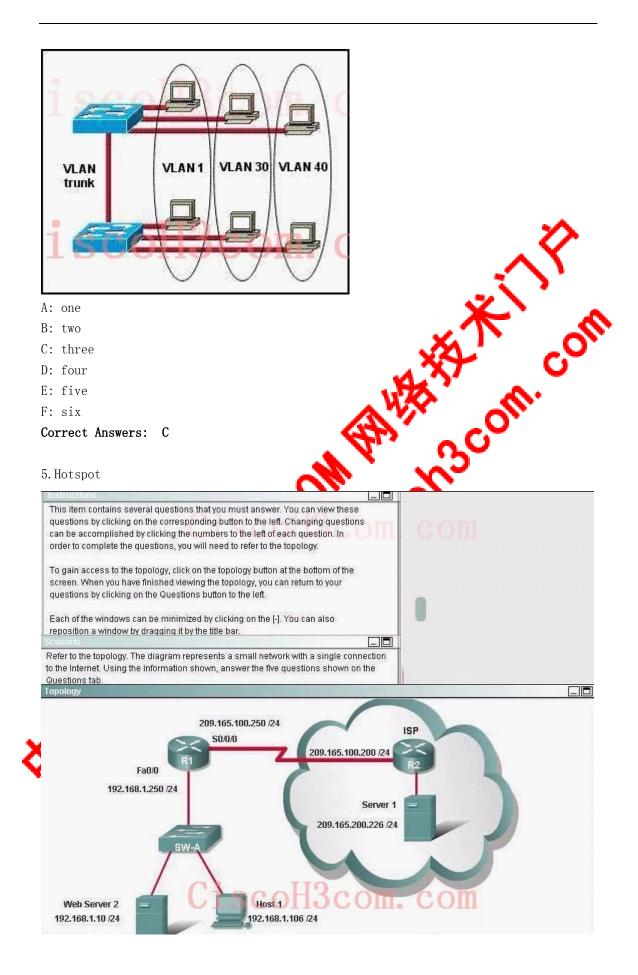
D:mismatched SSID

E:metal file capinets

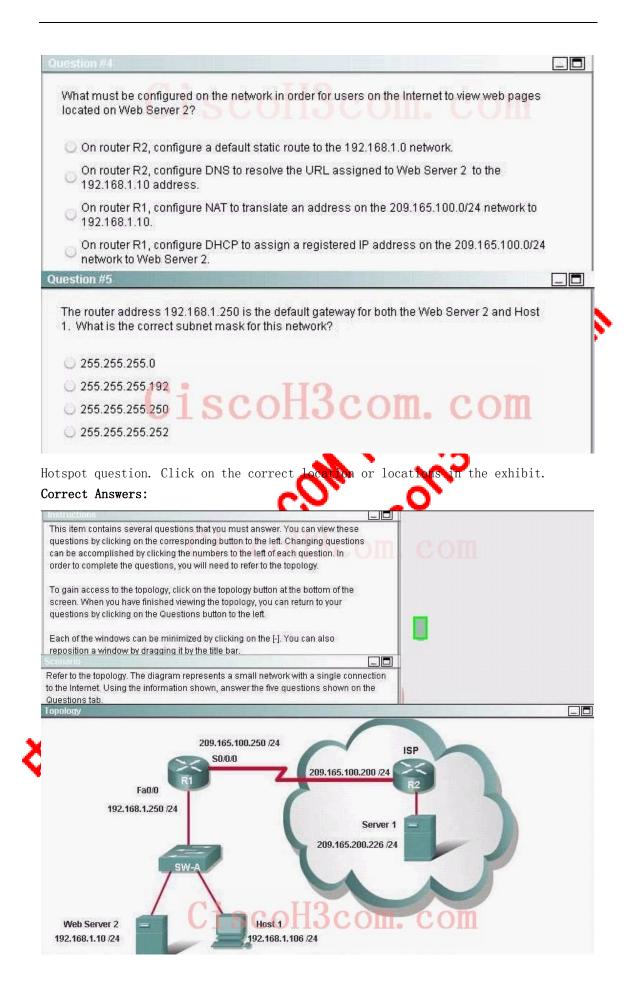
F:antenna type or direction

Correct Answers: C, E. F

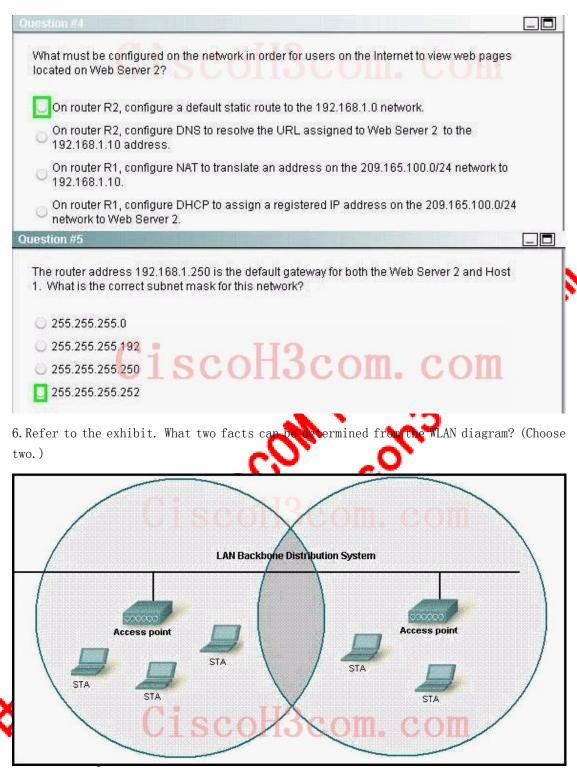
efer to the exhibit. How many broadcast domains exist in the exhibited topology?



estion #1	_
f the router R1 has a packet with a destination address 192.168.1.255, what describes the operation of the network?	
R1 will forward the packet out all interfaces.	
\bigcirc R1 will drop this packet because this it is not a valid IP address.	
As R1 forwards the frame containing this packet, Sw-A will add 192.168.1.255 to its MAC table.	
R1 will encapsulate the packet in a frame with a destination MAC address of FF-FF-FF -FF-FF.	
As R1 forwards the frame containing this packet, Sw-A will forward it to the device assigned the IP address of 192.168.1.255.	
estion #2	_
Users on the 192.168.1.0 /24 network must access files located on the Server 1. What route could be configured on router R1 for file requests to reach the server?	
🔘 ip route 0.0.0.0 0.0.0.0 s0/0/0	
🔘 ip route 0.0.0.0 0.0.0.0 209.165.200.226	
ip route 209.165.200.0 255.255.255.0 192.168.1.250	
ip route 192.168.1.0 255.255.255.0 209.165.100.250	
estion #3	_
When a packet is sent from Host 1 to Server 1, in how many different frames will the packet be encapsulated as it is sent across the internetwork?	
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Users on the 192.168.1.0 /24 network must access files located on the Server 1. What route could be configured on router R1 for file requests to reach the server? ip route 0.0.0.0 0.0.0.0 s0/0/0 ip route 0.0.0.0 0.0.0.0 209.165.200.226 ip route 209.165.200.0 255.255.255.0 192.168.1.250 ip route 192.168.1.0 255.255.255.0 209.165.100.250			_
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O 4	oe encapsul O O	ated as it is sent across the internetwork?	
E RET.	02	UISCONSCOM. COM	



A:The area of overlap of the two cells represents a basic service set (BSS).B:The network diagram represents an extended service set (ESS).C:Access points in each cell must be configured to use channel 1.D:The area of overlap must be less than 10% of the area to ensure connectivity.E:The two APs should be configured to operate on different channels.Correct Answers: B, E

7. The command frame-relay map ip 10.121.16.8 102 broadcast was entered on the router. Which of the following statements is true concerning this command?

A: This command should be executed from the global configuration mode.

B: The IP address $10.\,121.\,16.\,8$ is the local router port used to forward data.

C: 102 is the remote DLCI that will receive the information.

D: This command is required for all Frame Relay configurations.

E: The broadcast option allows packets, such as RIP updates, to be forwarded across the PVC.

Correct Answers: E

8. Which type of attack is characterized by a flood of packets that are requesting a TCP connection to a server?

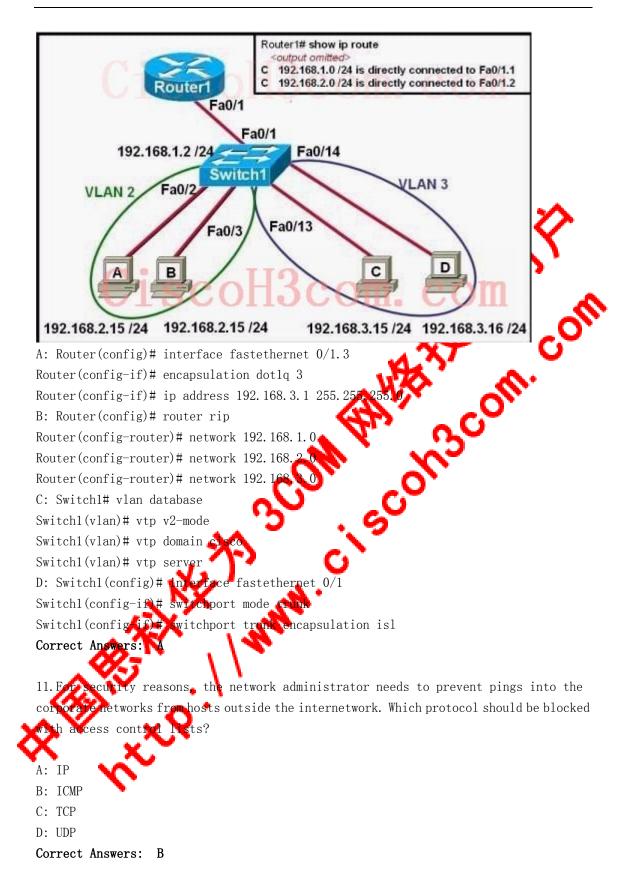
A: denial of serviceB: brute forceC: reconnaissanceD: Trojan horseCorrect Answers: A

9. Which of the following are associated with the application layer of the OSI model? (Choose two.)

A:ping B:Telnet C:FTP D:TCP E:IP

Correct Answers:

10. Refer to the exhibit. The network administrator has created a new VLAN on Switchl and added host C and host D. The administrator has properly configured switch interfaces FastEchernet0/13 through FastEthernet0/24 to be members of the new VLAN. However, after the network administrator completed the configuration, host A could communicate with host B, but host A could not communicate with host C or host D. Which commands are required to resolve this problem?



12. What are two recommended ways of protecting network device configuration files from outside network security threats? (Choose two.)

A:Allow unrestricted access to the console or VTY ports.

B:Use a firewall to restrict access from the outside to the network devices.

C:Always use Telnet to access the device command line because its data is automatically encrypted.

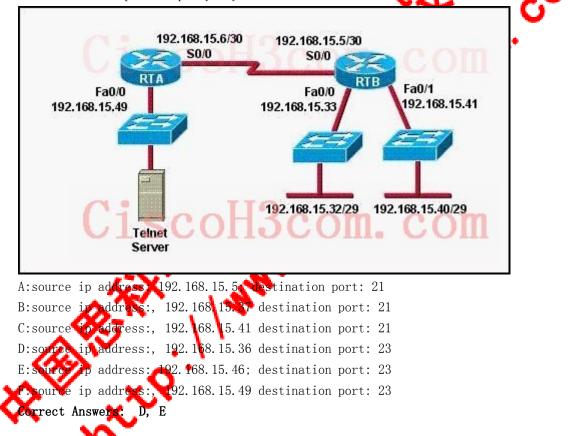
D:Use SSH or another encrypted and authenticated transport to access device configurations.

E:Prevent the loss of passwords by disabling password encryption.

Correct Answers: B, D

13. Refer to the exhibit. The access list has been configured on the SO/O interface of router RTB in the outbound direction. Which two packets, if routed to the interface, will be denied? (Choose two.)

access-list 101 deny tcp 192.168.15.32 0.0.0.15 any eq telne access-list 101 permit ip any any



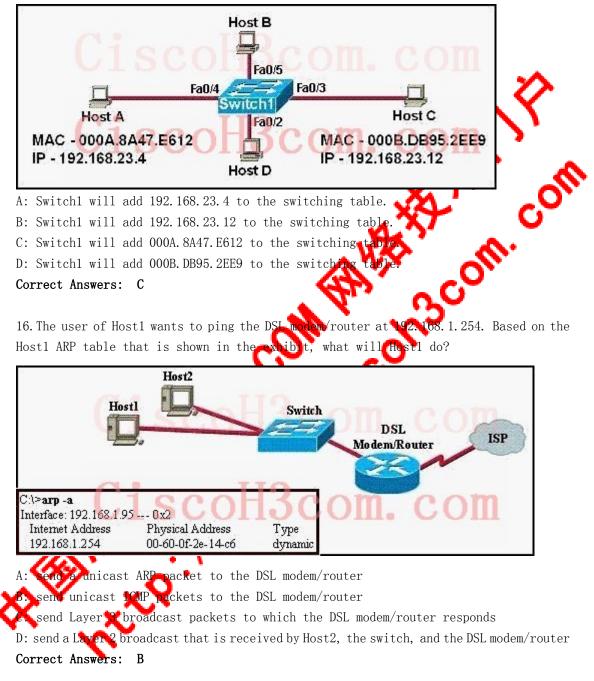
14. What are two security appliances that can be installed in a network? (Choose two.)

A:ATM B:IDS C:IOS

- D:IOX
- D.10A
- E:IPS
- F:SDM

Correct Answers: B, E

15. Refer to the exhibit. Switchl has just been restarted and has passed the POST routine. Host A sends its initial frame to Host C. What is the first thing the switch will do as regards populating the switching table?



17.Refer to the exhibit. What is the most efficient summarization that R1 can use to advertise its networks to R2?



The following have already been configured on the router:

- The basic router configuration
- The appropriate interfaces have been configured for NAT inside and NAT outside.

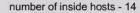
- The appropriate static routes have also been configured (since the company will be a stub network, no routing protocol will be required)

- All passwords have been temporarily set to "cisco".

The task is to complete the NAT configuration using all IP addresses assigned by the ISP to provide Internet access for the hosts in the Weaver LAN. Functionality can be tested by clicking on the host provided for testing.

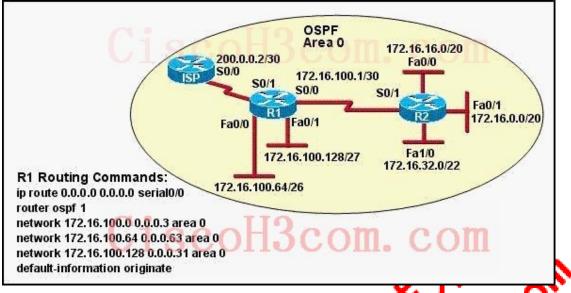
Configuration information

- router name Weaver inside global addresses-198.18.184.105 198.18.184.110/29
- inside local addresses 192.168.100.17 192.168.100.30/28





20. Refer to the exhibit. Assume that all router interfaces are operational and correctly configured. In addition, assume that OSPF has been correctly configured on router R2. How will the default route configured on R1 affect the operation of R2?



A: Any packet destined for a network that is not directly connected to router R1 vill be dropped.

- B: Any packet destined for a network that is not directly connected to router R2 will be dropped immediately.
- C: Any packet destined for a network that is not innectly connected to router R2 will be dropped immediately because of the lack of a gateway on R1.
- D: The networks directly connected to router K2 will not be able to communicate with the 172.16.100.0, 172.16.100.128, and 172.16.100.64 subnetworks.

E: Any packet destined for a network that is not referenced in the routing table of router R2 will be directed to R1. R1 will then send that packet back to R2 and a routing loop will occur.

Correct Answers: E

21. A network interface port has collision detection and carrier sensing enabled on a shared twisted pair network. From this statement, what is known about the network interface port?

A: This is a 10 Mb/s switch port.
B: This is a 100 Mb/s switch port.
C: This is an Ethernet port operating at half duplex.
D: This is an Ethernet port operating at full duplex.
E: This is a port on a network interface card in a PC.
Correct Answers: C

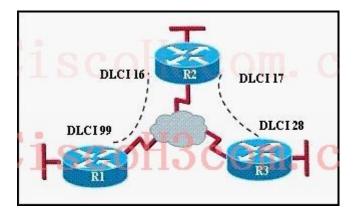
22. Refer to the topology and router configuration shown in the graphic. A host on the LAN is accessing an FTP server across the Internet. Which of the following addresses could appear as a source address for the packets forwarded by the router to the destination server?



and computers, and what technology should be implemented on this device? (Choose two.)

A:hub B:router C:switch D:STP E:subrue races F:NLAN Correct Answers:

24. Refer to the exhibit. Which statement describes DLCI 17?



A: DLCI 17 describes the ISDN circuit between R2 and R3. B: DLCI 17 describes a PVC on R2. It cannot be used on R3 or R1. C: DLCI 17 is the Layer 2 address used by R2 to describe a PVC to 13 D: DLCI 17 describes the dial-up circuit from R2 and R3 to the ce providen serv Correct Answers: C

ay as metrics? 25. Which routing protocol by default uses bandwidth

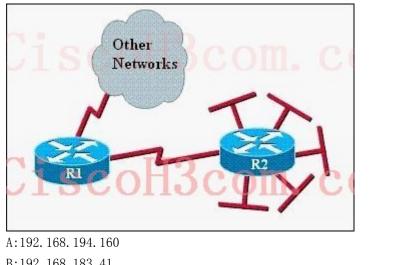
- A: RIP
- B: BGP
- C: OSPF
- D: EIGRP
- Correct Answers: D

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26. Refer to the output from the winning-config command in the exhibit. What should the administrator do to allow the workstations connected to the FastEthernet 0/0interface to obtain ddress?

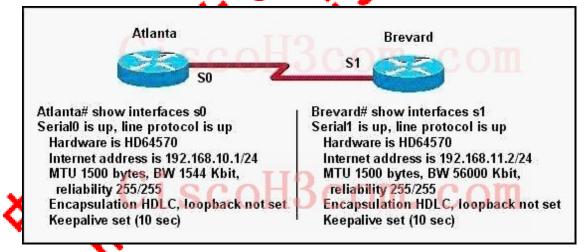


R1 forward to R2? (Choose two.)



B:192.168.183.41 C:192.168.159.2 D:192.168.183.255 E:192.168.179.4 F:192.168.184.45 Correct Answers: B, E

sh. com 28. Two routers named Atlanta and Brevard are conn rial interfaces as cted by th<mark>e</mark>i shown in the exhibit, but there is no data connectivity between them. The Atlanta router is known to have a correct configuration. Given the partial configurations shown in the exhibit, what is the problem on t at is causing the lack of evard router connectivity?



A: A loopback is not set.

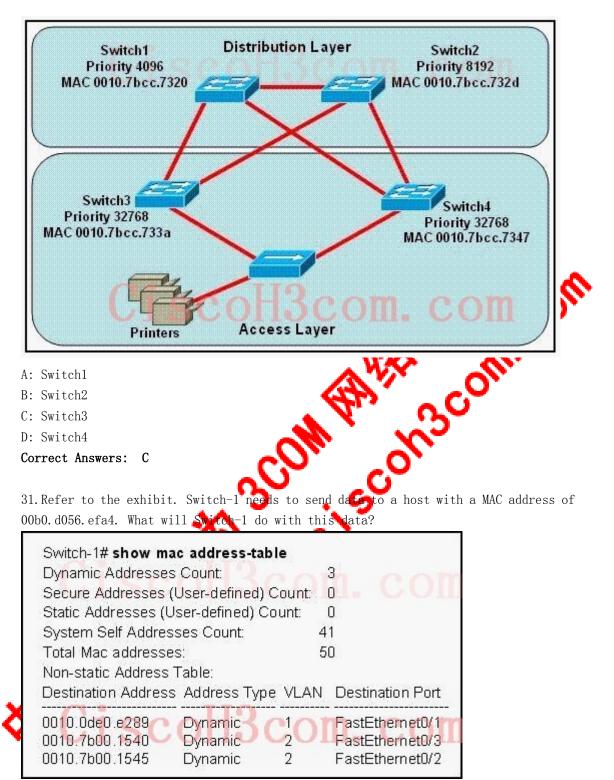
- B: The IP address is incorrect.
- C: The subnet mask is incorrect.
- D: The serial line encapsulations are incompatible.
- E: The maximum transmission unit (MTU) size is too large.
- F: The bandwidth setting is incompatible with the connected interface.

Correct Answers: B

29. Refer to the exhibit. The partial frame shown in the exhibit displays select header information as it arrives at the destination host. Which graphic represents the correct header information in the responding frame returned to the remote host?

Destination	Source	Destination	Source	Destination	Source	5	r (
000d.56ad.a313	000a.8a47.e612	192.168.14.1	192.168.14.2	23	42335	1	
W 90							
о А	-						_
Destinatio	n Source	Destination	Source	Destination	Source	S Y	AC
000a.8a47	e612 000d.56ad.	a313 192.168.14.3	2 192.168.14.1	23	42335	N O	K
200200 C	.0000.5580.	4313 132, 190, 14	132.100.14.1		146342	- More	-
ЭВ.							
Destination	n Source	Destination	Source	Destination	Source	Y	A
000a.8a47.	e612 000d.56ad.a	313 192.168.14.2	192.168.14.1	23	42336	N 1	
0 C.	8012 0000.3080.0	132,100,142	102,100,14,1	57	- WE U U U		
- C.						_	_
Destinatio	n Source	Destination	Source	Destination	Source	S Y	AC
000d.56ad	.a313 000a.8a47.e	612 192.168.14.1	192,168,14.2	42335	23	N 0	
2	.4515 0004.0441.0	1012 102.100.14.1	132.100.14.2	TEORE			-
D.							
Destination	n Source	Destination	Source	Destination	Source	S /	A
							ĸ
000a.8a47.	e612 000d.56ad.a	1313 192.168.14.2	192.168.14.1	42335	23	1	<u> </u>
О E.							
Destination	Source	Destination	Source	Destination	Source	SI	A
	UISC	DEE	COL	I. C			C K
		A REAL PROPERTY OF THE PROPERTY OF THE	192.168.14.1		23		

30. Refer to the exhibit. Which switch provides the spanning-tree designated port role for the network segment that services the printers?



A: Switch-1 will drop the data because it does not have an entry for that MAC address. B: Switch-1 will flood the data out all of its ports except the port from which the data originated.

C: Switch-1 will send an ARP request out all its ports except the port from which the data originated.

D: Switch-1 will forward the data to its default gateway.

Correct Answers: B

32. In the implementation of VLSM techniques on a network using a single Class C IP address, which subnet mask is the most efficient for point-to-point serial links?

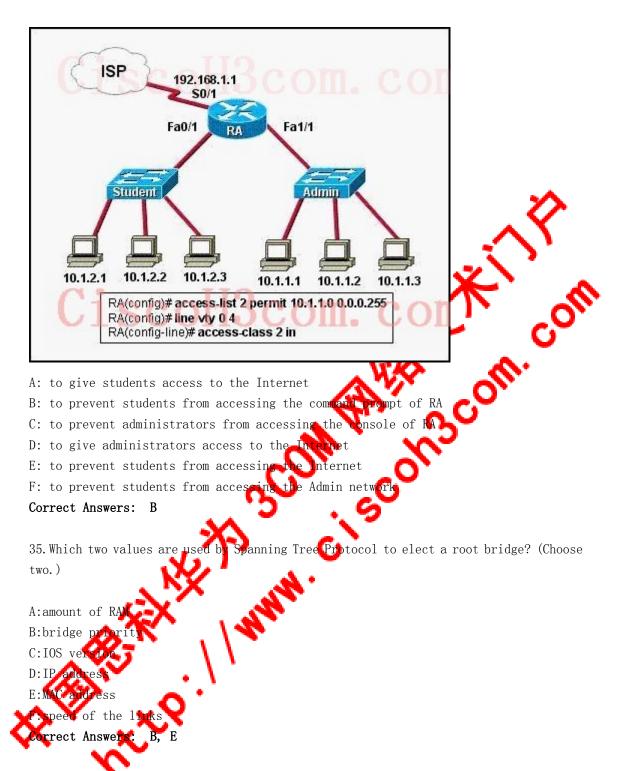
A: 255. 255. 255. 0
B: 255. 255. 255. 240
C: 255. 255. 255. 248
D: 255. 255. 255. 252
E: 255. 255. 255. 254
Correct Answers: D

33. LAB

A dental firm is redesigning the network that connects its three locations. The administrator gave the networking team 192.168.164.0 to use for addressing the entire network. After subnetting the address, the team is ready to assign the addresses. The administrator plans to configure **ip subnet-zero** and use RIP v2 as the routing protocol. As a member of the networking team, you must address the network and at the same time conserve unused addresses for future growth. With those goals in mind, drag the host addresses on the left to the correct router interface. One of the routers is partially configured. Move your mouse over a router to view its configuration. Not all of the host addresses on the left are necessary.

192.168.164.189/30		11 hosts	16 hosts	6 hosts
192.168.164.166/28				
192.168.164.149/27	Floss Fa0/0 IP	Tooth Fa0/	DIP Gum	Fa0/0 IP
192.168.164.188/30	```	Fa0/0	Fa0/0	Fa0/
192.168.164.178/29		SO/O Z	S0/1 S0/0	Z 50/1
192.168.164.255/26				
		Flo	ss S0/0 IP	

34. Refer to the exhibit. Why would the network administrator configure RA in this manner?



36. Drop



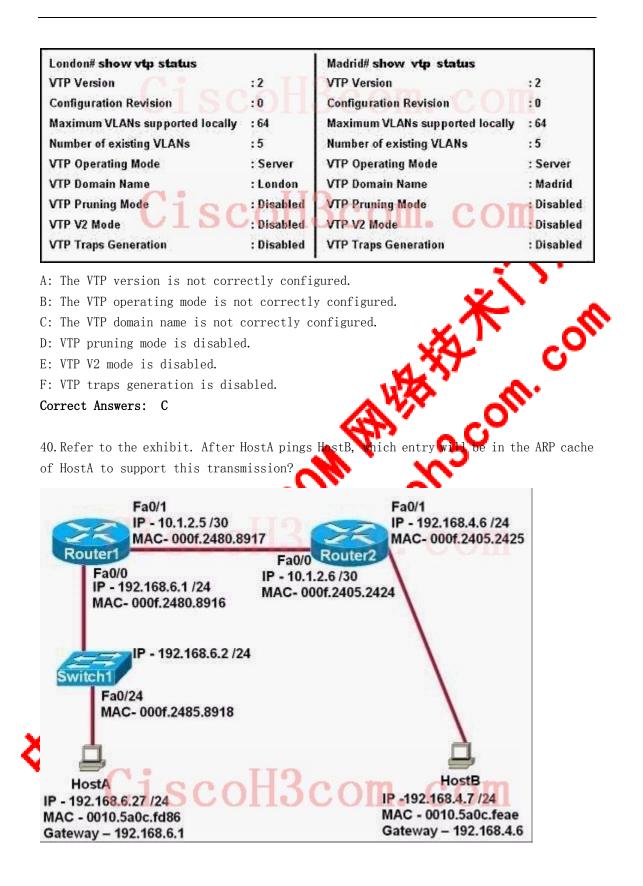
37. Refer to the exhibit. The two exhibited devices are the only Cisco devices on the network. The serial network between the two devices has a mask of 255. 255. 255. 252. Given the output that is shown, what three statements are true of these devices? (Choose three.)



39. A network administrator has configured two switches, named London and Madrid, to use VTP. However, the switches are not sharing VTP messages. Given the command output shown in the graphic, why are these switches not sharing VTP messages?

network layen application

rrect Answers:



CA.

Interface Address	Physical Address	Туре
192.168.4.7	000f.2480.8916	dynamic

ΟB.

Interface Address	Physical Address	Туре
192.168.4.7	0010.5a0c.feae	dynamic

οc.

Interface Address	Physical Address	Туре
192.168.6.1	0010.5a0c.feae	dynamic

CD.

	Physical Address	Туре
192.168.6.1	000f.2480.8916	dynamic

CE.

Interface Address	Physical Address	Туре
192.168.6.2	0010.5a0c.feae	dynamic

CF.

	terface Address	Physical Address	Туре
192.168.6.2 000f.2485.8918 dynam	2.168.6.2	000f.2485.8918	dynamic

41. In order to allow the establishment of a Telnet session with a router, which set of commands must be configured?

A: router(config)# line console 0
router(config-line)# enable password cisco
B: router(config)# line console 0

router(config-line)# enable secret cisco

router(config-line)# login

C: router(config) # line console 0

router(config-line)# password cisco

router(config-line)# login

D: router(config) # line vty 0

router(config-line)# enable password cisco

E: router(config) # line vty 0

router(config-line)# enable secret cisco

router(config-line)# login

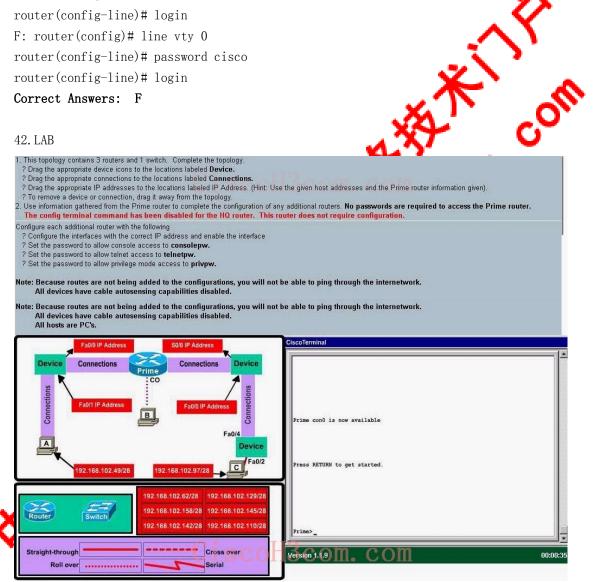
F: router(config) # line vty 0

router(config-line)# password cisco

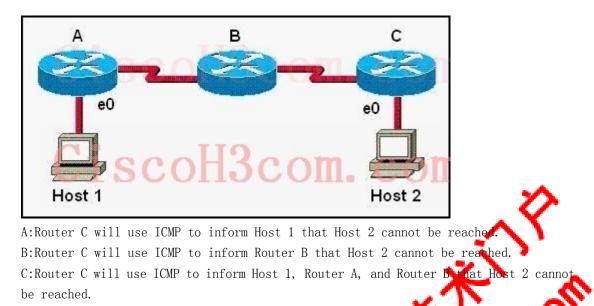
router(config-line)# login

Correct Answers: F

42. LAB



43. Host 1 is trying to communicate with Host 2. The eO interface on Router C is down. Which of the following are true? (Choose two.)



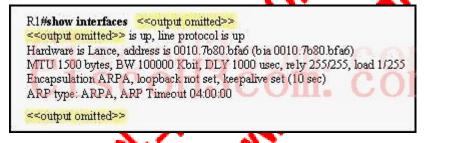
D:Router C will send a Destination Unreachable message type

E:Router C will send a Router Selection message type

F:Router C will send a Source Quench message type.

Correct Answers: A, D

44. Refer to the exhibit. Assuming that the router is configured with the default settings, what type of router interface is this?



A: Ethernet

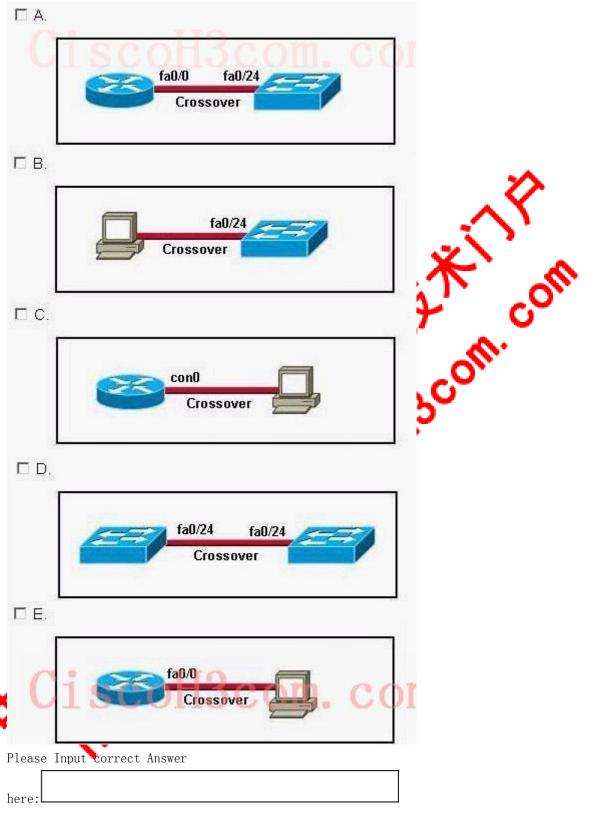
orrect Answers:

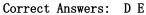
B: FastEthernetC: Gigabit Ethernet

D: asynchronous serial

E: synchronous serial

45. Which two topologies are using the correct type of twisted-pair cables? (Choose two.)





46. On point-to-point networks, OSPF hello packets are addressed to which address?

A: 127.0.0.1

B: 172. 16. 0. 1
C: 192. 168. 0. 5
D: 223. 0. 0. 1
E: 224. 0. 0. 5
F: 254. 255. 255. 255
Correct Answers: E

47. While troubleshooting a connectivity problem, a network administrator notices that a port status LED on a Cisco Catalyst series switch is alternating green and amber which condition could this indicate?

- A: The port is experiencing errors.
- B: The port is administratively disabled.
- C: The port is blocked by spanning tree.

D: The port has an active link with normal traffic activity

Correct Answers: A

48. Refer to the exhibit. The network shown in the exhibit is running the hIPv2 routing protocol. The network has converged, and the numers in this network are functioning properly. The FastEthernet0/0 interface on R1 goes down. In which two ways will the routers in this network respond to this change? (Choose two.)



A:All routers will reference their topology database to determine if any backup routes to the 192.168.1.0 network are known

B:Routers R2 and R3 mark the route as inaccessible and will not accept any further routing updates from R1 until their hold down timers expire.

C:Because of the split-horizon rule, router R2 will be prevented from sending erroneous information to R1 about connectivity to the 192.168.1.0 network.

D:When router R2 learns from R1 that the link to the 192.168.1.0 network has been lost, R2 will respond by sending a route back to R1 with an infinite metric to the 192.168.1.0 network.

E:R1 will enc LSAs to R2 and R3 informing them of this change, and then all routers will send periodic updates at an increased rate until the network again converges. Correct Answers: C, D

49. What is the maximum data rate specified for IEEE 802.11b WLANs?

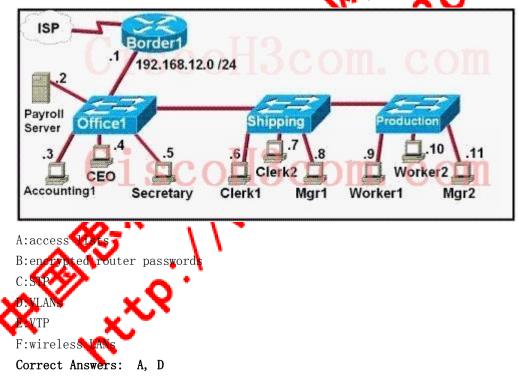
- A: 10 Mbps
- B: 11 Mbps
- C: 54 Mbps

D: 100 Mbps Correct Answers: B

50. Which of the following describe the process identifier that is used to run OSPF on a router? (Choose two.)

A:It is locally significant.
B:It is globally significant.
C:It is needed to identify a unique instance of an OSPF database.
D:It is an optional parameter required only if multiple OSPF processes are running on the router.
E:All routers in the same OSPF area must have the same process ID if they are to exchange routing information.
Correct Answers: A, C

51. Refer to the exhibit. The FMJ manufacturing company is concerned about unauthorized access to the Payroll Server. The Accounting1, CEO, Mark, and Mgr2 workstations should be the only computers with access to the Payroll Server. What two technologies should be implemented to help prevent unauthorized access to the server? (choose two.)



52. Which two statements are true about the command ip route 172.16.3.0 255.255.255.0 192.168.2.4? (Choose two.)

A:It establishes a static route to the 172.16.3.0 network.B:It establishes a static route to the 192.168.2.0 network.C:It configures the router to send any traffic for an unknown destination to the

172.16.3.0 network.

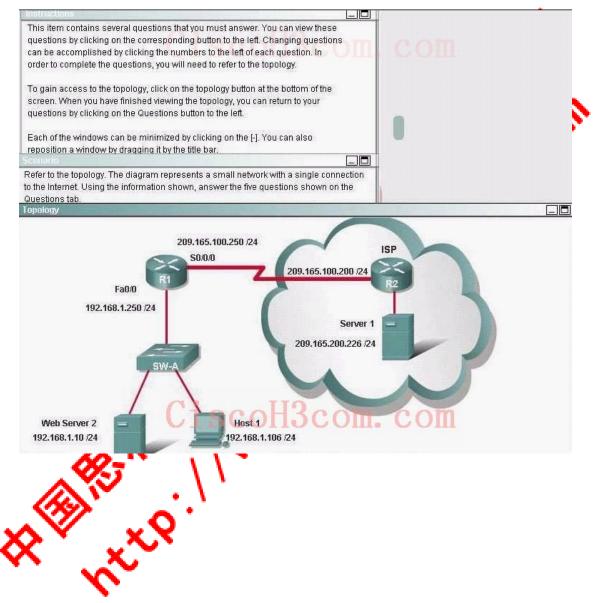
D:It configures the router to send any traffic for an unknown destination out the interface with the address 192.168.2.4.

E:It uses the default administrative distance.

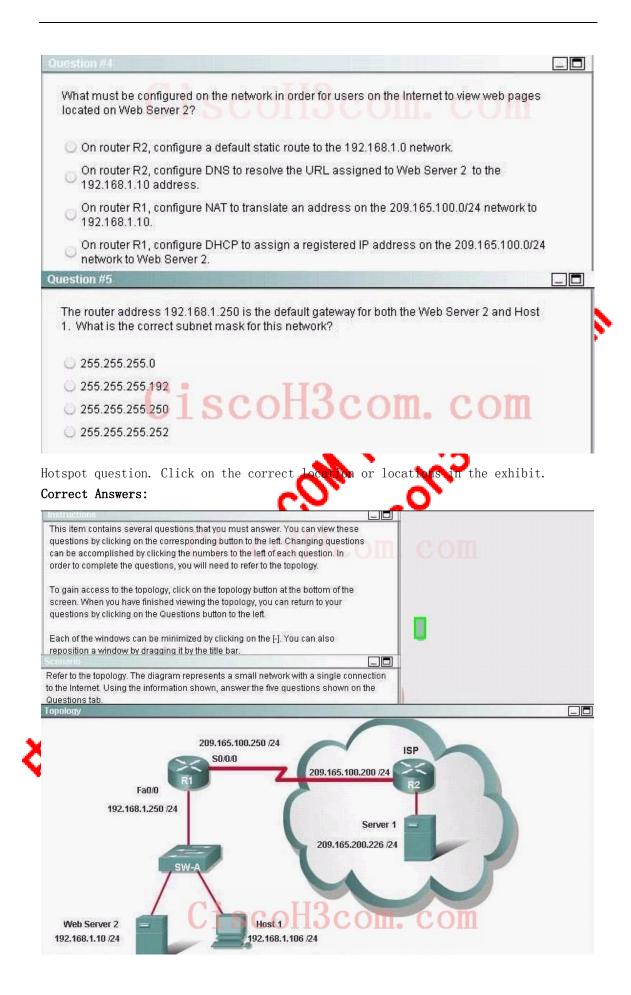
F:It is a route that would be used last if other routes to the same destination exist.

Correct Answers: A, E

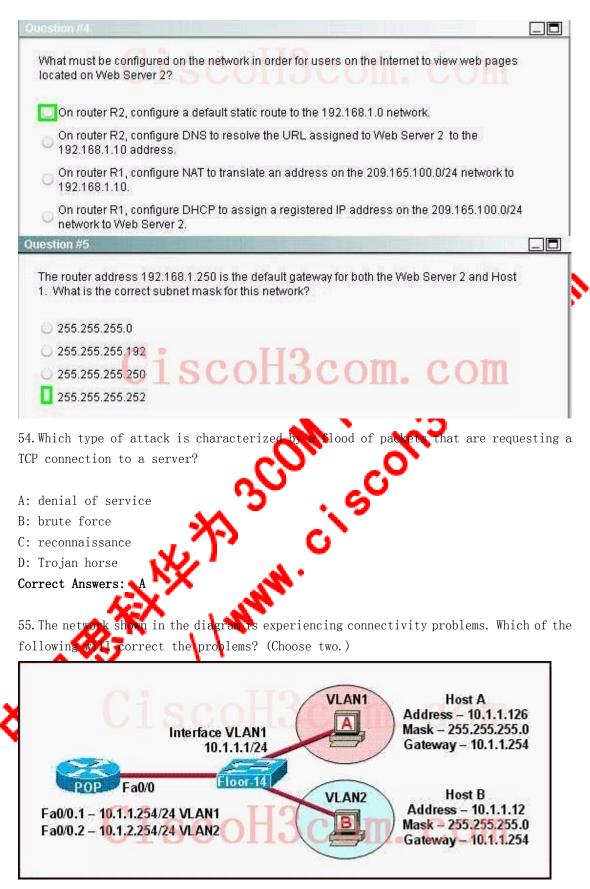
53. Hotspot



estion #1	_
f the router R1 has a packet with a destination address 192.168.1.255, what describes the operation of the network?	
R1 will forward the packet out all interfaces.	
\bigcirc R1 will drop this packet because this it is not a valid IP address.	
As R1 forwards the frame containing this packet, Sw-A will add 192.168.1.255 to its MAC table.	
R1 will encapsulate the packet in a frame with a destination MAC address of FF-FF-FF -FF-FF.	
As R1 forwards the frame containing this packet, Sw-A will forward it to the device assigned the IP address of 192.168.1.255.	
estion #2	_
Users on the 192.168.1.0 /24 network must access files located on the Server 1. What route could be configured on router R1 for file requests to reach the server?	
🔘 ip route 0.0.0.0 0.0.0.0 s0/0/0	
🔘 ip route 0.0.0.0 0.0.0.0 209.165.200.226	
ip route 209.165.200.0 255.255.255.0 192.168.1.250	
ip route 192.168.1.0 255.255.255.0 209.165.100.250	
estion #3	_
When a packet is sent from Host 1 to Server 1, in how many different frames will the packet be encapsulated as it is sent across the internetwork?	
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and an and an and an	
^{o2} CiccoH2com com	
CiscoH3com. com	
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estion #1	_
f the router R1 has a packet with a destination address 192.168.1.255, what describes the operation of the network?	
R1 will forward the packet out all interfaces.	
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As R1 forwards the frame containing this packet, Sw-A will add 192.168.1.255 to its MAC table.	
R1 will encapsulate the packet in a frame with a destination MAC address of FF-FF-FF -FF-FF.	
As R1 forwards the frame containing this packet, Sw-A will forward it to the device assigned the IP address of 192.168.1.255.	
estion #2	_
Jsers on the 192.168.1.0 /24 network must access files located on the Server 1. What route could be configured on router R1 for file requests to reach the server?	
🔘 ip route 0.0.0.0 0.0.0.0 s0/0/0	
🔘 ip route 0.0.0.0 0.0.0.0 209.165.200.226	
🧾 ip route 209.165.200.0 255.255.255.0 192.168.1.250	
ip route 192.168.1.0 255.255.255.0 209.165.100.250	
estion #3	_
When a packet is sent from Host 1 to Server 1, in how many different frames will the packet be encapsulated as it is sent across the internetwork? 0 1 2 3 4	
ALL P.	



A:Configure the gateway on Host A as 10.1.1.1. B:Configure the gateway on Host B as 10.1.2.254. C:Configure the IP address of Host A as 10.1.2.2. D:Configure the IP address of Host B as 10.1.2.2. E:Configure the masks on both hosts to be 255.255.255.224. F:Configure the masks on both hosts to be 255.255.255.240. Correct Answers: B, D 56. Which three statements are correct about RIP version 2? (Choose three.) A: It has the same maximum hop count as version 1. B:It uses broadcasts for its routing updates. C:It is a classless routing protocol. D:It has a lower default administrative distance than RIP version E:It supports authentication. F:It does not send the subnet mask in updates. Correct Answers: A, C, E 57. What should be part of a comprehensive network A: Allow users to develop their own approach to here ork secur: B: Physically secure network equipment from potential acces nauthorized individuals. C: Encourage users to use personal information in their passwords to minimize the likelihood of passwords being forget en. D: Delay deployment of software patches and updates intil their effect on end-user equipment is well known and wroely reported. E: Minimize network overhead by deactivating altomatic antivirus client updates. Correct Answers: 58. How should a re ter that is being used in a Frame Relay network be configured to avoid split horizon issues from preventing routing updates? separate sub-interface for each PVC with a unique DLCI and subnet assigned ne sub-interface. . Configure each Frame Relay circuit as a point-to-point line to support multicast and broadcast traffic. C: Configure many sub-interfaces on the same subnet. D: Configure a single sub-interface to establish multiple PVC connections to multiple remote router interfaces. Correct Answers: A 59. What is the maximum data rate specified for IEEE 802.11b WLANs?

A: 10 Mbps B: 11 Mbps C: 54 Mbps D: 100 Mbps Correct Answers: B

60. Which two statements best describe the wireless security standard that is defined by WPA? (Choose two.)

A:It specifies use of a static encryption key that must be changed frequently to enhance B:It requires use of an open authentication method.

C:It specifies the use of dynamic encryption keys that change each time a chief establishes a connection.

D:It requires that all access points and wireless devices use the same encryption key.

E:It includes authentication by PSK.

Correct Answers: C, E

security.

61. Refer to the exhibit. Routerl was just successfully rebooled. Identify the eurrent OSPF router ID for Routerl.

Routerl# show ip interface brief OK? Method Status IP-Address Protocol Interface Ethernet0 190.172.32.10 YES NVRAM up up LoopbackO 208.149.23.162 YES NVRAM up up Loopbackl 208.149.23.194 YES NVRAM up up 220.173.149.10 Serial0 YES manual down down YES NVRAM Seriall unassigned administratively down down A: 190.172.32.10 B: 208.149.23.162 C: 208.149.23.194 D: 220.173.149.1 Correct Answers: network administrator utilize by using PPP Layer 2 encapsulation? (Choose LAN support B:compress C:authentication D:sliding windows E:multilink support F:quality of service Correct Answers: B, C, E

Printers, Inc. is redesigning the network that connects its three locations. The administrator gave the networking team 192.168.151.0 to use for addressing the entire network. After subnetting the address, the team is ready to assign the addresses. The administrator plans to configure ip subnet-zero and use RIP v2 as the routing protocol. As a member of the networking team, you must address the network and at the same time conserve unused addresses for future growth. With those goals in mind, drag the host addresses on the left to the correct router interface. One of the routers is partially configured. Move your mouse over a router to view its configuration. Not all of the host addresses on the left are necessary 7 hosts 60 hosts 66 hosts 192.168.151.249/28 192.168.151.224/30 Spooler Fa0/0 IP Laser Fa0/0 IP Inkjet Fa0/0 IP 192 168 151 239/29 192.168.151.30/25 Fa0/0 Fa0/0 Fa0/0 S0/0 S0/1 S0/0 S0/* 192.168.151.225/30 192,168,151,149/26 Cisco 13 C O Spooler SO/0 IP 64. Refer to the exhibit. What is the meaning of the term dynamic as displayed in the output of the show frame-relay map command shown? R1# show frame-relay map Serial0/0 (up): ip 172.16.3.1 dlci 100 (0x64, 0x1840), dynamic broadcast, status defined, active A: The Serial0/0 interface is passing traffic. B: The DLCI 100 was dynamically allocated by the router C: The SerialO/O interface acquired the IP address of 172.16.3.1 from a DHCP server. D: The DLCI 100 will be dynamically changed as required to adapt to changes in the Frame Relay cloud. E: The mapping betwe and the end station IP address 172.16.3.1 was learned through Inverse A Correct Answers Cisco IOS command ip nat inside source static 10.1.1.5 65. What unction of the 172address pool for all outside NAT transactions. reates a <mark>glo</mark>ba It establishes a dynamic address pool for an inside static address. C: It creat s dynamic source translations for all inside local PAT transactions. D: It creates a one-to-one mapping between an inside local address and an inside global address. E: It maps one inside source address to a range of outside global addresses. Correct Answers: D 66. Refer to the exhibit. What is the effect of the configuration that is shown?



A: It configures SSH globally for all logins.

B: It tells the router or switch to try to establish an SSh connection first and if that fails to use Telnet.

C: It configures the virtual terminal lines with the password 030752180500. D: It configures a Cisco network device to use the SSH protocol on incoming communications via the virtual terminal ports.

E: It allows seven failed login attempts before the VTY lines are teneorarily shutdown Correct Answers: D

67. Refer to the exhibit. When PC1 sends an ARP request for the MAC address of PC2, performance slows dramatically, and the switches detect a number of broadcast frames. What is the most likely cause



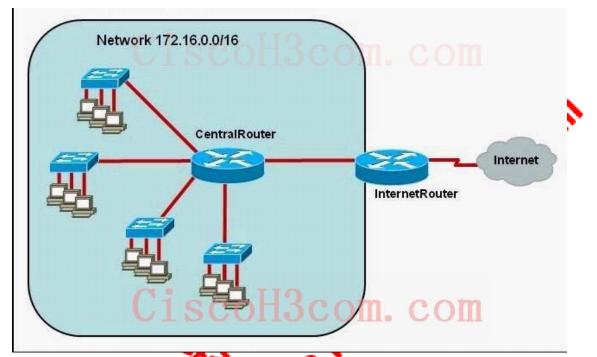
68. An administrator issues the command ping 127. 0. 0. 1 from the command line prompt on a PC. If a reply is received, what does this confirm?

A: The PC has connectivity with a local host.

- B: The PC has connectivity with a Layer 3 device.
- C: The PC has a default gateway correctly configured.

D: The PC has connectivity up to Layer 5 of the OSI model. E: The PC has the TCP/IP protocol stack correctly installed. Correct Answers: E

69. Refer to the exhibit. The network administrator requires easy configuration options and minimal routing protocol traffic. What two options provide adequate routing table information for traffic that passes between the two routers and satisfy the requests of the network administrator? (Choose two.)



A:a dynamic routing protocol on InternetRouten to advertise all routes to CentralRouter. B:a dynamic routing protocol on InternetRouter to advertise summarized routes to CentralRouter.

C:a static route on InternetRouter to threat traffic that is destined for 172.16.0.0/16 to CentralRouter.

D:a dynamic routing protocol on CentralRouter to advertise all routes to InternetRouter. E:a dynamic routing protocol on CentralRouter to advertise summarized routes to InternetRouter.

A static, default route on CentralRouter that directs traffic to InternetRouter. orrect Answers: C, F

70. What are some of the advantages of using a router to segment the network? (Choose two.)

A:Filtering can occur based on Layer 3 information.

B:Broadcasts are eliminated.

C:Routers generally cost less than switches.

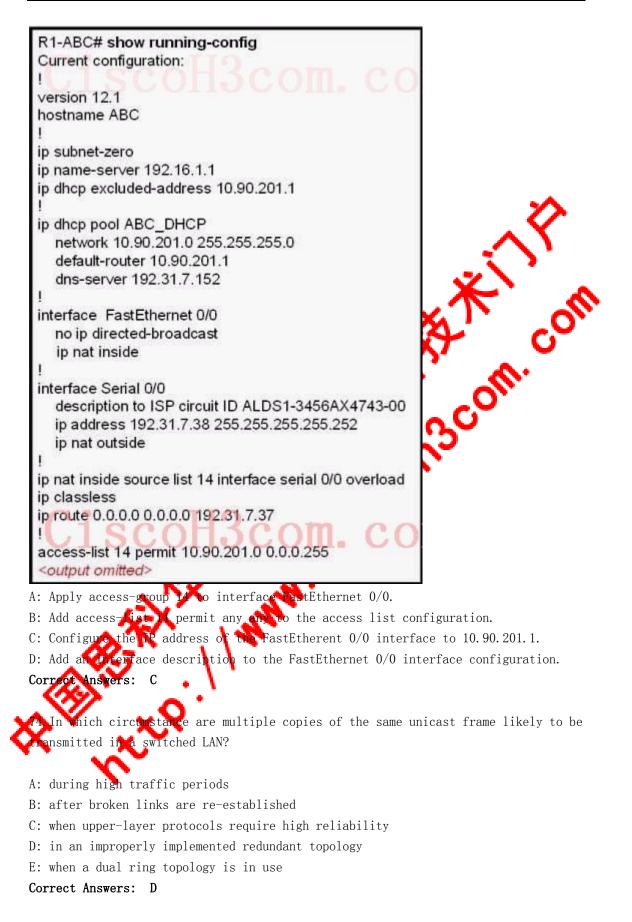
 $\ensuremath{\texttt{D}:Broadcasts}$ are not forwarded across the router.

E:Adding a router to the network decreases latency.

Correct Answers: A, D

71. Refer to the exhibit. What is the meaning of the output MTU 1500 bytes?

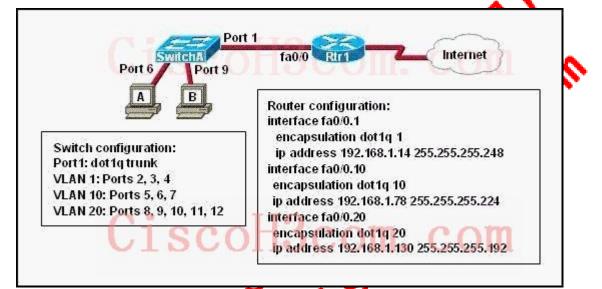




75. Which of the following describe private IP addresses? (Choose two.)

A:addresses chosen by a company to communicate with the Internet B:addresses that cannot be routed through the public Internet C:addresses that can be routed through the public Internet D:a scheme to conserve public addresses E:addresses licensed to enterprises or ISPs by an Internet registry organization **Correct Answers: B, D**

76. Refer to the exhibit. A network administrator is adding two new hosts to SwitchA. Which three values could be used for the configuration of these hosts? (Choose three.)



A:host 1 IP address: 192.168.1.79 B:host 1 IP address: 192.168.1.64 C:host 1 default gateway: 192.168.1.78 D:host 2 IP address: 192.168.1.128 E:host 2 default gateway: 192.168.1.12 F:host 2 IP address: 192.168.1.190

Correct Auswers: A, C, F

77. Which of the following statements are true regarding bridges and switches? (Choose o.

A: \widehat{S} witches are primarily software based while bridges are hardware based.

B:Both bridges and switches forward Layer 2 broadcasts.

C:Bridges are frequently faster than switches.

D:Switches have a higher number of ports than most bridges.

E:Bridges define broadcast domains while switches define collision domains.

F:Both bridges and switches make forwarding decisions based on Layer 2 addresses.

Correct Answers: B, D, F

78. Which of the following describes the roles of devices in a WAN? (Choose three.)

A:A CSU/DSU terminates a digital local loop.
B:A modem terminates a digital local loop.
C:A CSU/DSU terminates an analog local loop.
D:A modem terminates an analog local loop.
E:A router is commonly considered a DTE device.
F:A router is commonly considered a DCE device.
Correct Answers: A, D, E

79. A router receives information about network 192.168.10.0/24 from multiple sources. What will the router consider the most reliable information about the path to that network?

A: a directly connected interface with an address of 192.168.10.2

B: a static route to network 192.168.10.0/24

C: a RIP update for network 192.168.10.0/24 $\,$

A, D.

D: an OSPF update for network 192.168.0.0/16 $\,$

E: a default route with a next hop address of 192

F: a static route to network 192.168.10.0/24 with a local serial interface configured

as the next hop

Correct Answers: A

80. Which three Layer 2 encapsulation types would be used on a WAN rather than a LAN? (Choose three.)

A:HDLC

B:Ethernet

C:Token Ring

D:PPP

E:FDDI

F:Frame Refa

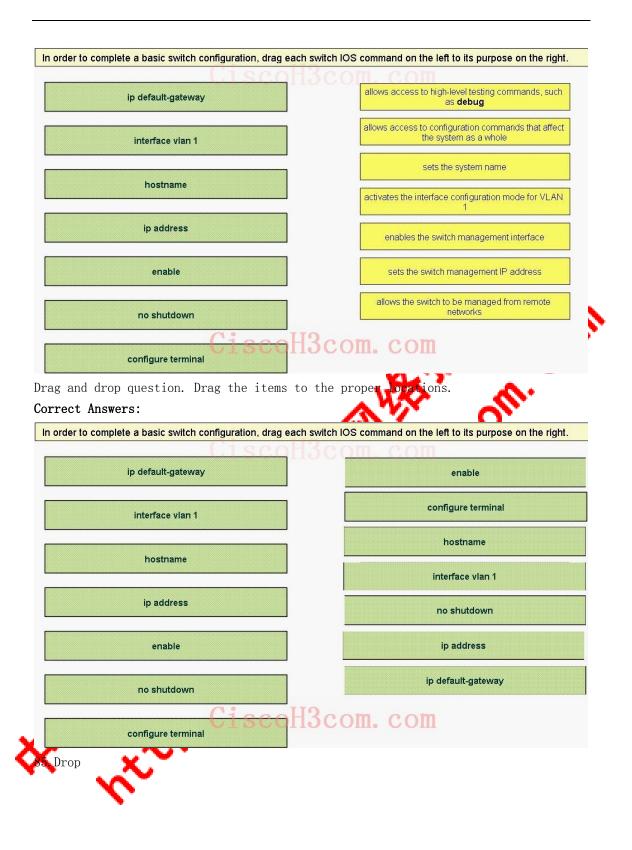
can be

determined from the router output shown in the graphic?





Interface Address	Physical Address	Туре
192.168.4.7	000f.2480.8916	dynamic
Interface Address	Physical Address	Туре
192.168.4.7	0010.5a0c.feae	dynamic
Interface Address	Physical Address	Туре
192.168.6.1	0010.5a0c.feae	dynamic
		_
Interface Address	Physical Address	Туре
192.168.6.1	000f.2480.8916	dynamic
Interface Address	Physical Address	Туре
192.168.6.2	0010.5a0c.feae	dynamic
	110	
Interface Address	Physical Address	Туре
192.168.6.2	000f.2485.8918	dynamic
Input correct Answer		
Answers: D		



The Missouri branch office router is connected through its s0 interface to the Alabama Headquarters router s1 interface. The Alabama router has two LANs. Missouri users obtain Internet access through the Headquarters router. The network interfaces in the topology are addressed as follows: Missouri: e0 - 192.168.35.17/28; s0 - 192.168.35.33/28; Alabama: e0 - 192.168.35.49/28; e1 - 192.168.35.65/28; s1 - 192.168.35.34/28. The accounting server has the address of 192.168.35.66/28. Match the access list conditions on the left with the goals on the right. (Not all options on the left are used.)



Drag and drop question. Drag the items to the proper loca Correct Answers:

The Missouri branch office router is connected through its s0 interface to the Alabama Headquarters router s1 interface. The Alabama router has two LANs. Missouri users obtain Internet access through the Headquarters router. The network interfaces in the topology are addressed as follows: Missouri: e0 - 192.168.35.17/28; s0 - 192.168.35.33/28; Alabama: e0 - 192.168.35.49/28; e1 - 192.168.35.65/28; s1 - 192.168.35.34/28. The accounting server has the address of 192.168.35.66/28. Match the access list conditions on the left with the goals on the right. (Not all options on the left are used.)



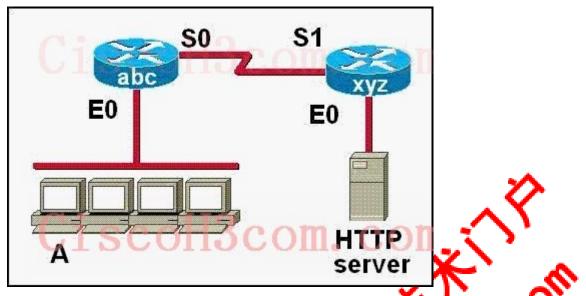
This topology contains 3 routers and 1 switch. Complete the topology. Prag the appropriate device icons to the locations labeled Device . Prag the appropriate connections to the locations labeled Connections . Prag the appropriate IP addresses to the locations labeled IP Address. (Hint: Use To remove a device or connection, drag it away from the topology. Use information gathered from the Prime router to complete the configuration of an The config terminal command has been disabled for the HO router. This ro Configure each additional router with the following ? Configure the interfaces with the cornect IP address and enable the interface ? Set the password to allow tentet access to tentetyw. ? Set the password to allow privilege mode access to privyw.	y additional routers. No passwords are required to access the Prime router.
Note: Because routes are not being added to the configurations, you will not l All devices have cable autosensing capabilities disabled.	be able to ping through the internetwork.
Note: Because routes are not being added to the configurations, you will not I All devices have cable autosensing capabilities disabled. All hosts are PC's.	be able to ping through the internetwork.
Sull IP Address Sull IP Address Device Connections Device Sull IP Address Connections Device Sull IP Address Fault IP Address Sull IP Address Sull IP Address Fault IP Address Sull IP Address Sull IP Address Fault IP Address Sull IP Address Fault IP Address Fault IP Address Fault IP Address Fault IP Address Fault IP Address Fault IP Address	CiscoTerminal
192.168.102.49/28 192.168.102.97/28	Press RETURN to get started.
Switch 192.168.102.62/28 192.168.102.129/28 192.168.102.158/28 192.168.102.145/28 192.168.102.145/28 192.168.102.142/28 192.168.102.141/28 192.168.102.145/28	Prime>_
Straight-through	version 1.9 M. COM 00:00:35

87. Why will a switch never learn a broadcast address?

- A: Broadcasts only use network layer addressing.
- B: A broadcast frame is never forwarded by a switch.
- C: A broadcast address will never be the source address of a frame.
- D: Broadcast addresses use an incorrect format for the switching table.
- E: Broadcast frames are mover sent to switches.

Correct Answers:

88. Refer to the graphic. Host A has established a connection with the HTTP server attached to interface E0 of the xyz router. Which of the following statements describe the information contained in protocol data units sent from host A to this server? (Choose



A:The destination port number in a segment header will have a value of 80. B:The destination port number in a segment header will have a value greater than or equal to 1023.

C:The destination address of a frame will be the MAC address of the HTTP server interface. D:The destination address of a frame will be the AMC address of the DO interface of the abc router.

E: The destination IP address of a packet will be the IP address of the EO interface of the abc router.

F:The destination IP address of a packet will be the IP address of the network interface of the HTTP server.

Correct Answers: A, D, F

89. What are two reasons a network administrator would use CDP? (Choose two.)

A:to verify the type of cable interconnecting two devices

B:to determine the status of betwork services on a remote device

C:to obtain LAN information from directly connected switches

D:to verify Layer 2 connectivity between two devices when Layer 3 fails

E: Copies the IP address of a connected device in order to telnet to the device

resto determine the status of the routing protocols between directly connected routers correct Answers: D, E

90. What is the purpose of the command shown below?

vtp password F10r1da

A: It is used to validate the sources of VTP advertisements sent between switches.B: It is used to access the VTP server to make changes to the VTP configuration.C: It allows two VTP servers to exist in the same domain, each configured with different passwords.

D: It is the password required when promoting a switch from VTP client mode to VTP server mode.

E: It is used to prevent a switch newly added to the network from sending incorrect VLAN information to the other switches in the domain.

Correct Answers: A

91. A single 802. 11g access point has been configured and installed in the center of a square office. A few wireless users are experiencing slow performance and drops while most users are operating at peak efficiency. What are three likely causes of this problem? (Choose three.)

A:mismatched TKIP encryption B:null SSID C:cordless phones D:mismatched SSID E:metal file cabinets F:antenna type or direction Correct Answers: C, E, F

92. A network administrator needs to force a high-performance switch that is located in the MDF to become the root bridge for a redundant path switched network. What can be done to ensure that this switch assumes the role as root wridge?

A: Establish a direct link from the switch to all other switches in the network.

B: Assign the switch a higher MAC address than the other switches in the network have.C: Configure the switch so that it has a lower priority than other switches in the network.D: Configure the switch for full-duplex operation and configure the other switches for

half-duplex operation.

Correct Ans

E: Connect the switch directly to the NDF router, which will force the switch to assume the role of root bridge.

93. Note: to the exhibit, Given the output of the Floor3 switch, what statement describes The operation of this switch?

	or3# show vtp status VTP Version	:2
	Configuration Revision	1
	Maximum VLANs supported loo	cally: 250
	Number of existing VLANs	: 8
	VTP Operating Mode	: Client
	VTP Domain Name	: XYZ
1	VTP Pruning Mode 🔨 🌈 🌈	Disabled
_	VTP V2 Mode	Disabled :
	VTP Traps Generation	: Disabled

C

A: VTP is disabled on this switch.

B: The switch can create, change, and delete VLANs.

C: The switch learns VLAN information but does not save it to NVRAM.

D: The switch can create VLANs locally but will not forward this information to other switches.

E: The switch learns VLAN information and updates the local VLAN data base in NVRAM. Correct Answers: C

94. What is the effect of the following access list condition?

access-list 101 permit ip 10.25.30.0 0.0.0.255 any

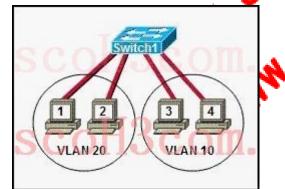
A: permit all packets matching the first three octets of the source address to all destinations

B: permit all packets matching the last octet of the destination address and accept and source addresses

C: permit all packets from the third subnet of the network address to all destinations D: permit all packets matching the host bits in the source address to all destinations E: permit all packets to destinations matching the first whree octets in the destination address

Correct Answers: A

95. Refer to the exhibit. Hosts on the same VIAN can communicate with each other but are unable to communicate with hosts on different VLANs. What is needed to allow communication between VLANs?

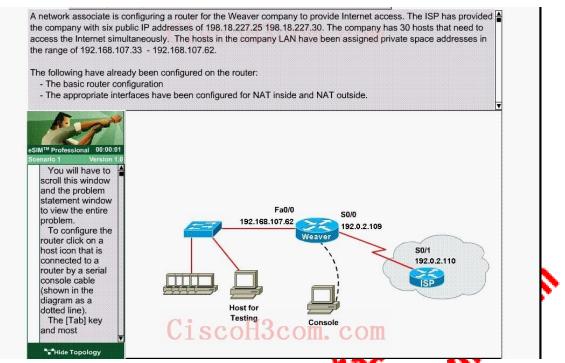


As a switch with a trunk link that is configured between the switches By a router with an IP address on the physical interface that is connected to the switch C: a switch with an access link that is configured between the switches

D: a router with subinterfaces configured on the physical interface that is connected to the switch

Correct Answers: D

96. LAB



97. Why would a network administrator configure port security on a switch?

- A: to prevent unauthorized Telnet access to a switch port
- B: to limit the number of Layer 2 broadcasts on a particular switch port
- C: to prevent unauthorized hosts from accessing the LAN
- D: to protect the IP and MAC address of the switch and associated ports
- E: to block unauthorized access to the switch management interfaces over common TCP ports Correct Answers: C

98. The show interfaces social 0/0 command resulted in the output shown in the graphic. What are possible causes for this interface status? (Choose three.)

Router# show interfaces serial 0/0 Serial0/0 is up, line protocol is down Hardware is HD64570 Internet address is 192.168.100.1/24 MTU 1500 bytes, BW 1544 Kbit, DLY 20000 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation HDLC, loopback not set Keepalive set (10 sec)

A:The interface is shut down.
B:No keepalive messages are received.
C:The clockrate is not set.
D:No loopback address is set.
E:No cable is attached to the interface.
F:There is a mismatch in the encapsulation type.
Correct Answers: B, C, F

99. Refer to the exhibit. The FMJ manufacturing company is concerned about unauthorized access to the Payroll Server. The Accounting1, CEO, Mgr1, and Mgr2 workstations should be the only computers with access to the Payroll Server. What two technologies should be implemented to help prevent unauthorized access to the server? (Choose two.)



- A: The OSPF area is not configured properly.
- B: The priority on R1 should be set higher.
- C: The cost on R1 should be set higher.
- D: The hello and dead timers are not configured properly.

E: A backup designated router needs to be added to the network. F: The OSPF process ID numbers must match. Correct Answers: D 101. On which types of network will OSPF elect a backup designated router? A: point-to-point and multiaccess B: point-to-multipoint and multiaccess C: point-to-point and point-to-multipoint D: nonbroadcast and broadcast multipoint E: nonbroadcast and broadcast multiaccess Correct Answers: E 102. This graphic shows the results of an attempt to open a Telnet connection to ro ACCESS1 from router Remote27. Which of the following command sequences will correct problem? Remote27# Remote27#telnet access1 Trying ACCESS1 (10.0.0.1)... Open Password required, but none set [Connection to access1 closed by foreign host] Remote27# A: ACCESS1(config)# fit onsole (ACCESS1 (config line) # password ci B: Remote27(config)# line consol Remote27 (config line)# login Remote27 (config-line) # password cisco CLSSI(config)# line vty 0 4 CCESSI(config-line)#.login ACCESS1(configurine)# password cisco D: Remote27(config) # line vty 0 4 Remote27(config-line)# login Remote27(config-line) # password cisco E: ACCESS1(config) # enable password cisco F: Remote27(config) # enable password cisco Correct Answers: C

103. Refer to the exhibit. Subnet 10.1.3.0/24 is unknown to router RTB. Which router command will prevent router RTB from dropping a packet destined for the 10.1.3.0/24

10.1.3.0/24 Stub Network S0/0 .ó 10.1.1.0/2410.1.4.4/30 in route A: ip classless B: ip default-network C: network 10.1.1.0 D: network 10.1.1.0 0.0.0.255 area 0 Correct Answers: A 104. Refer to the exhibit. The network shown in the exhibit ning the **RIP**v2 routing protocol. The network has converged, and the routes in this network functioning properly. The FastEthernet0/0 interface on R1 goes down. In whi ways will the Choose two routers in this network respond to this change? 192.168.1.0 192.168.2.0 S0/1 Fa0/0 S0/0 S0/0 S0/1 Fa0/0 10.1.1.1 192.168.1.1 10.1.1.2 10.1.1.5 10.1.1.6 192.168.2.1 A:All routers will reference their topology database to determine if any backup routes to the 192.168.1.0 metwork are known. B:Routers R2 and R3 mark the route as inacc sible and will not accept any further routing updates from R until their hold-down timers expire.

C:Because of the solit-horizon rule, router R2 will be prevented from sending erroneous information to R1 about connectivity to the 192.168.1.0 network.

D:When router R2 learns from R1 that the link to the 192.168.1.0 network has been lost, R2 will espond by sending a route back to R1 with an infinite metric to the 192.168.1.0 network.

LER1 will send LSAs to R2 and R3 informing them of this change, and then all routers will send periodic updates at an increased rate until the network again converges. Correct Answers: C, D

105. Which statement accurately describes a benefit provided by VTP?

A: VTP allows routing between VLANs.

network if a default route is configured?

- B: VTP allows a single port to carry information to more than one VLAN.
- C: VTP allows physically redundant links while preventing switching loops.
- D: VTP allows switches to share VLAN configuration information.

Correct Answers: D

106. Refer to the exhibit. What kind of cable should be used to make each connection that is identified by the numbers shown?



107. Refer to the exhibit. A network administrator attempts to ping Host2 from Host1 and receives the results that are shown. What is a possible problem?



boot: cannot open "flash:"

What will the router do next?

Because of damaged flash memory, the router will fail the POST.

B: It will a compt to locate the IOS from a TFTP server. If this fails, it will initiate the setup dialog.

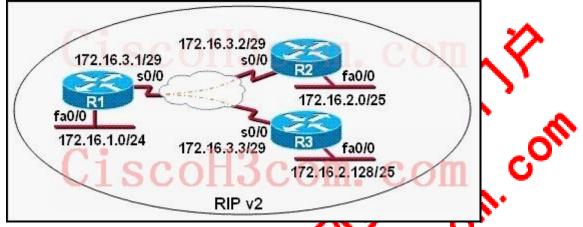
C: It will attempt to locate the IOS from a TFTP server. If this fails, it will load a limited IOS from ROM.

D: It will attempt to locate the configuration file from a TFTP server. If this fails, it will initiate the setup dialog.

E: It will attempt to locate the configuration file from a TFTP server. If this fails, it will load a limited configuration from ROM.

Correct Answers: C

110. Refer to the exhibit. S0/0 on R1 is configured as a multipoint interface to communicate with R2 and R3 in this hub-and-spoke Frame Relay topology. While testing this configuration, a technician notes that pings are successful from hosts on the 172. 16. 1. 0/24 network to hosts on both the 172. 16. 2. 0/25 and 172. 16. 2. 128/25 networks. However, pings between hosts on the 172. 16. 2. 0/25 and 172. 16. 2. 128/25 networks are not successful. What could explain this connectivity problem?



A: The ip subnet-zero command has been issued on the R1 router.

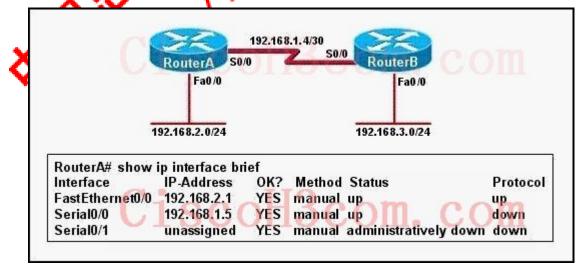
B: The RIP v2 dynamic routing protocol cannot be used across a Frame Relay network. C: Split horizon is preventing R2 from learning about the R3 networks and R3 from learning about the R2 networks.

D: The 172.16.2.0/25 and 172.16.2.128,25 networks are overlapping networks that can be seen by R1, but not between R2 and R3.

E: The 172.16.3.0/29 network used on the Frame Relay links is creating a discontiguous network between the R2 and R3 router subnetworks.

Correct Answers: C

111. Refer to the combit. Hosts in network 192.168.2.0 are unable to reach hosts in network 192.168.3.0. Based on the output from RouterA, what are two possible reasons for the faither? (Choose two.)



A:The cable that is connected to SO/O on RouterA is faulty.

B:Interface SO/O on RouterB is administratively down.

C:Interface S0/0 on RouterA is configured with an incorrect subnet mask.

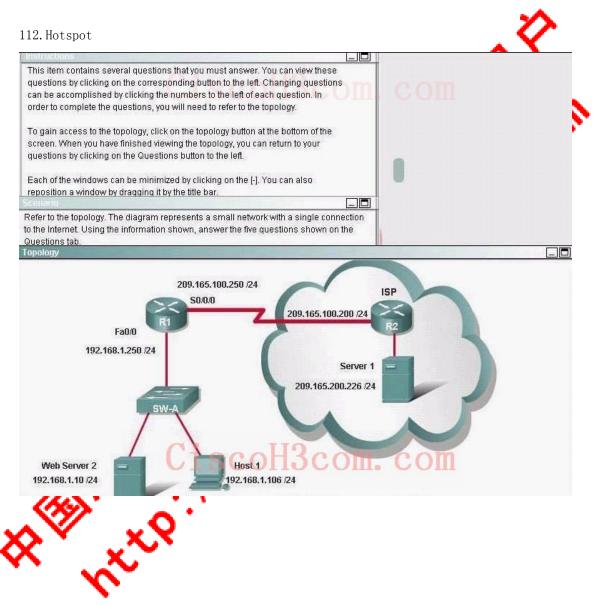
D:The IP address that is configured on SO/O of RouterB is not in the correct subnet.

 $E:Interface \ SO/O$ on RouterA is not receiving a clock signal from the CSU/DSU.

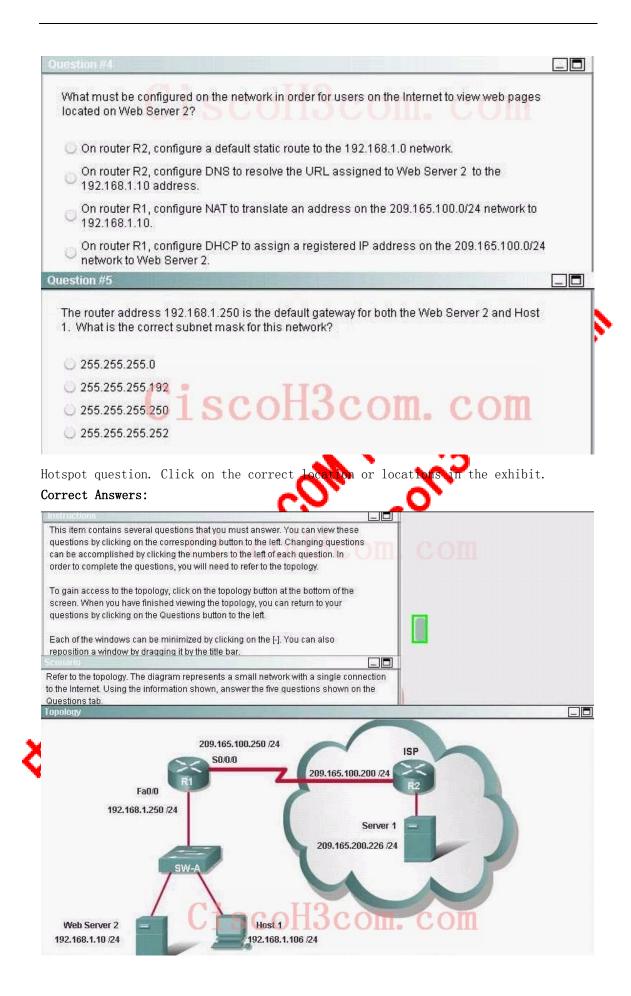
F:The encapsulation that is configured on SO/O of RouterB does not match the

encapsulation that is configured on S0/0 of RouterA.

Correct Answers: E, F



estion #1	-
f the router R1 has a packet with a destination address 192.168.1.255, what describes the operation of the network?	
R1 will forward the packet out all interfaces.	
\bigcirc R1 will drop this packet because this it is not a valid IP address.	
As R1 forwards the frame containing this packet, Sw-A will add 192.168.1.255 to its MAC table.	
R1 will encapsulate the packet in a frame with a destination MAC address of FF-FF-FF -FF-FF.	
As R1 forwards the frame containing this packet, Sw-A will forward it to the device assigned the IP address of 192.168.1.255.	
estion #2	_
Users on the 192.168.1.0 /24 network must access files located on the Server 1. What route could be configured on router R1 for file requests to reach the server?	
🔘 ip route 0.0.0.0 0.0.0.0 s0/0/0	
🔘 ip route 0.0.0.0 0.0.0.0 209.165.200.226	
ip route 209.165.200.0 255.255.255.0 192.168.1.250	
ip route 192.168.1.0 255.255.255.0 209.165.100.250	
estion #3	_
When a packet is sent from Host 1 to Server 1, in how many different frames will the packet be encapsulated as it is sent across the internetwork?	
© 1	
² CiscoH3com. com	



f the router R1 has a packet with a destination address 192.168.1.255, what describes to operation of the network? R1 will forward the packet out all interfaces. R1 will drop this packet because this it is not a valid IP address. As R1 forwards the frame containing this packet, Sw-A will add 192.168.1.255 to its M table. R1 will encapsulate the packet in a frame with a destination MAC address of FF-FF-F -FF-FF. As R1 forwards the frame containing this packet, Sw-A will forward it to the device	
 R1 will drop this packet because this it is not a valid IP address. As R1 forwards the frame containing this packet, Sw-A will add 192.168.1.255 to its N table. R1 will encapsulate the packet in a frame with a destination MAC address of FF-FF-F -FF-FF. 	IAC
 As R1 forwards the frame containing this packet, Sw-A will add 192.168.1.255 to its M table. R1 will encapsulate the packet in a frame with a destination MAC address of FF-FF-F -FF-FF. 	1AC
 table. R1 will encapsulate the packet in a frame with a destination MAC address of FF-FF-F -FF-FF. 	1AC
• -FF-FF.	17-17-17-
As R1 forwards the frame containing this packet, Sw-A will forward it to the device	F-FF
assigned the IP address of 192.168.1.255.	
estion #2	
Users on the 192.168.1.0 /24 network must access files located on the Server 1. What n could be configured on router R1 for file requests to reach the server?	oute
🔾 ip route 0.0.0.0 0.0.0.0 s0/0/0	
🔘 ip route 0.0.0.0 0.0.0.0 209.165.200.226	
ip route 209.165.200.0 255.255.255.0 192.168.1.250	
ip route 192.168.1.0 255.255.255.0 209.165.100.250	
estion #3	
When a packet is sent from Host 1 to Server 1, in how many different frames will the pack be encapsulated as it is sent across the internetwork?	ket 1

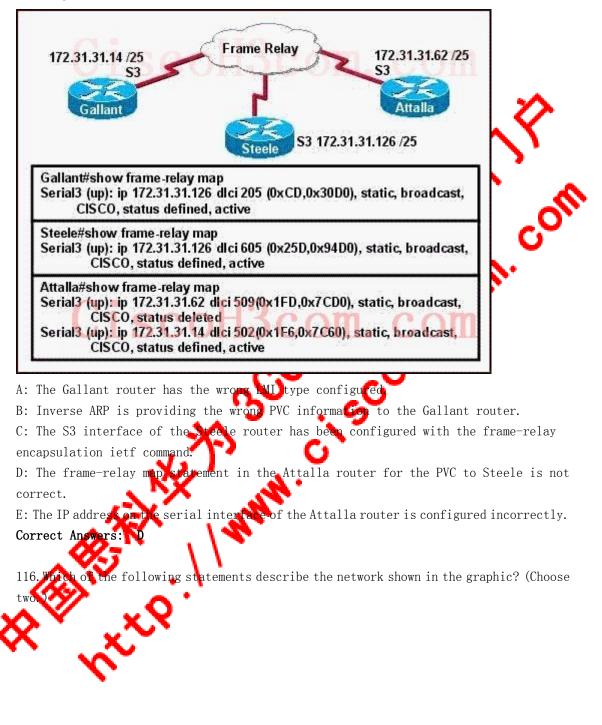


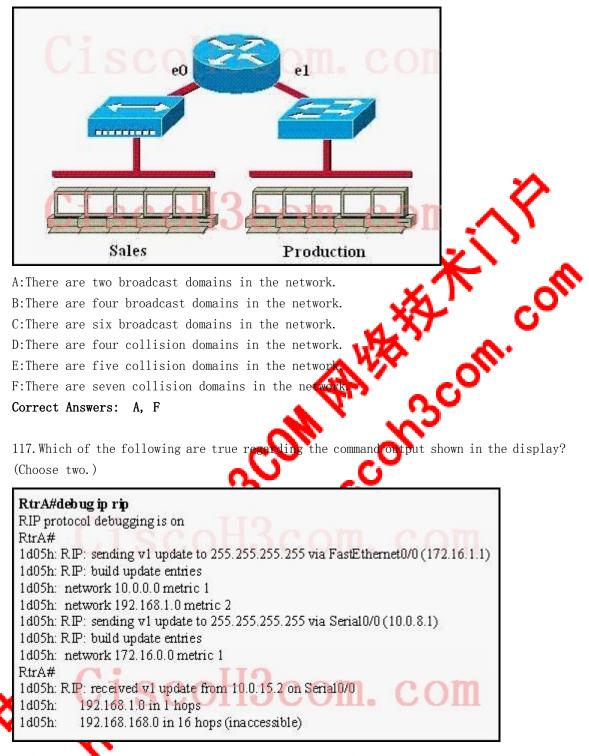
114. You and a co-worker have established wireless communication directly between your wireless laptops. What type of wireless topology has been created?

- A: BSS
- B: ESS
- C: IBSS
- D: SSID

Correct Answers: C

115. The Frame Relay network in the diagram is not functioning properly. What is the cause of the problem?





A:There are at least two routers participating in the RIP process.
B:A ping to 192.168.168.2 will be successful.
C:A ping to 10.0.15.2 will be successful.
D:RtrA has three interfaces participating in the RIP process.
Correct Answers: A, C

118. What three pieces of information can be used in an extended access list to filter traffic? (Choose three.)

A:protocol B:VLAN number C:TCP or UDP port numbers D:source switch port number E:source IP address and destination IP address F:source MAC address and destination MAC address **Correct Answers:** A, C, E

119. What is the effect of using the service password-encryption command?

A: Only the enable password will be encrypted.

B: Only the enable secret password will be encrypted.

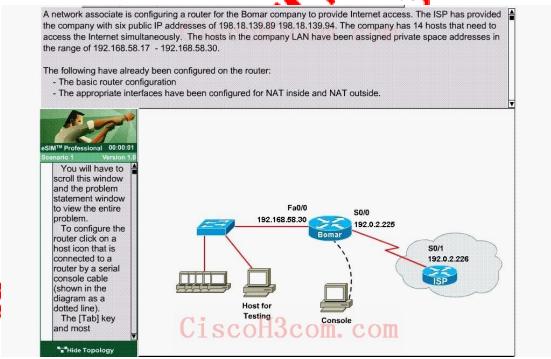
C: Only passwords configured after the command has been entered with be encrypted

D: It will encrypt the secret password and remove the enable secret password from the configuration.

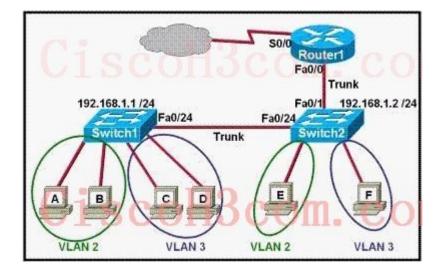
E: It will encrypt all current and future passwords

Correct Answers: E

120. LAB



121. Refer to the exhibit. Which two statements are true about interVLAN routing in the topology that is shown in the exhibit? (Choose two.)



A:Host E and host F use the same IP gateway address.

B:Router1 and Switch2 should be connected via a crossover

C:Router1 will not play a role in communications between host / and host D. D:The FastEthernet 0/0 interface on Router1 must be configured with submaterfaces.

E:Router1 needs more LAN interfaces to accommodate the VLANs that are shown in the exhibit.

F:The FastEthernet 0/0 interface on Router1 and Switch2 trunk ports must be configured using the same encapsulation type.

Correct Answers: D, F

122. Refer to the exhibit. For what two reasons has the router loaded its IOS image from the location that is shown? (Choose two.)

```
Routerl> show version

Cisco Internetwork Operating System Software

IOS (tm) 7200 Software (C7200-J-M), Experimental Version 11.3(19970915:164752)

[hampton-nitro-baseline 249]

Copyright (c) 1986-1997 by cisco Systems, Inc.

Compiled Wed 08-0ct-97 06:39 by hampton

Image text-base: 0x60008900, data-base: 0x60B98000

ROM: System Bootstrap, Version 11.1(11855) [beta 2], INTERIM SOFTWARE

BOOTFLASH: 7200 Software (C7200-BOOT-M), Version 11.1(472), RELEASE SOFTWARE (fcl)

Routerl uptime is 23 hours, 33 minutes

System restarted by abort at PC 0x6022322C at 10:50:55 PDT Tue 0ct 21 1997

System image file is "tftp://172.16.1.129/hampton/nitro/c7200-j-mz"

cisco 7206 (NDE150) processor with S7344K/8192K bytes of memory.

<output omitted>

Configuration register is 0x2102
```

A:Router1 has specific boot system commands that instruct it to load IOS from a TFTP server.

B:Router1 is acting as a TFTP server for other routers.

C:Router1 cannot locate a valid IOS image in flash memory.

D:Router1 defaulted to ROMMON mode and loaded the IOS image from a TFTP server.

E:Cisco routers will first attempt to load an image from TFTP for management purposes. Correct Answers: A, C

123. At which OSI layer is a logical path created between two host systems?

A: session	
B: transport	
C: network	
D: data link	~
E: physical	
Correct Answers: C	- AN
124.What functions do routers p	perform in a network? (Choose two.)
A:packet switching	
B:access layer security	AXT U
C:path selection	
D:VLAN membership assignment	
E:bridging between LAN segments	s (A) (V)
F:microsegmentation of broadcas	st domains
Correct Answers: A, C	
	how with status command is executed at a switch that is
125.Refer to the exhibit. The sl	
	t. Which statement G true for this switch?
generating the exhibited output Switch# show vtp status VTP Version	t. Which statement is true for this switch? : 2
generating the exhibited output Switch# show vtp status VTP Version Configuration Revision	t. Which statement is true for this switch? : 2 : 0
generating the exhibited output Switch# show vtp status VTP Version	t. Which statement is true for this switch? : 2 : 0
generating the exhibited output Switch# show vtp status VTP Version Configuration Revision Maximum VLANs supported 1 Number of existing VLANs VTP Operating Mode	t. Which statement is true for this switch? : 2 : 0 locally : 64 : 17 : Transparent
generating the exhibited output Switch# show vtp status VTP Version Configuration Revision Maximum VLANs supported 1 Number of existing VLANs VTP Operating Mode VTP Domain Name	t. Which statement is true for this switch? : 2 : 0 locally : 64 : 17 : Transparent : ICND
generating the exhibited output Switch# show vtp status VTP Version Configuration Revision Maximum VLANs supported 1 Number of existing VLANs VTP Operating Mode VTP Domain Name VTP Pruning Mode	t. Which statement is urue for this switch? : 2 : 0 locally : 64 : 17 : Transparent : ICND : Disabled
generating the exhibited output Switch# show vtp status VTP Version Configuration Revision Maximum VLANs supported 1 Number of existing VLANs VTP Operating Mode VTP Domain Name	t. Which statement is true for this switch? : 2 : 0 locally : 64 : 17 : Transparent : ICND
generating the exhibited output Switch# show vtp status VTP Version Configuration Revision Maximum VLANs supported 1 Number of existing VLANs VTP Operating Mode VTP Domain Name VTP Pruning Mode VTP V2 Mode	t. Which statement is urue for this switch? : 2 : 0 locally : 64 : 17 : Transparent : ICND : Disabled : Disabled

B: The configuration revision number increments each time the VLAN database is updated. C: The switch forwards VTP updates that are sent by other switches in the ICND domain. D: The VLAN database is updated when VTP information is received from other switches. Correct Answers: C

 $126.\,{\rm Which}$ two statements best describe the wireless security standard that is defined by WPA? (Choose two.)

A: It specifies use of a static encryption key that must be changed frequently to enhance

security.

B:It requires use of an open authentication method.

C:It specifies the use of dynamic encryption keys that change each time a client establishes a connection.

D:It requires that all access points and wireless devices use the same encryption key. E:It includes authentication by PSK.

Correct Answers: C, E

127. Refer to the exhibit. The network shown in the exhibit is running the RIPv2 routing protocol. The network has converged, and the routers in this network are functioning properly. The FastEthernet0/0 interface on R1 goes down. In which two ways will the routers in this network respond to this change? (Choose two.)



A:All routers will reference their topology database to determine if any tackup routes to the 192.168.1.0 network are known.

B:Routers R2 and R3 mark the route as inaccessible and will not accept any further routing updates from R1 until their hold-down times expire.

C:Because of the split-horizon rule, power 2 will be prevented from sending erroneous information to R1 about connectivity to the 192.168. O network.

D:When router R2 learns from R1 that the link to the 192.168.1.0 network has been lost, R2 will respond by sending a neure back to R1 with an infinite metric to the 192.168.1.0 network.

E:R1 will send LSAs to R2 and R3 informing them of this change, and then all routers will send periodic updates at an increased rate until the network again converges. Correct Answers: C.D

128. What is the function of the command switchport trunk native vlan 999 on a Cisco Catalyst switch?

. It creates a VIAN 999 interface.

It designates VLAN 999 for untagged traffic.

C: It block VAN 999 traffic from passing on the trunk.

D: It designates VLAN 999 as the default for all unknown tagged traffic. Correct Answers: B

129. Which type of attack is characterized by a flood of packets that are requesting a TCP connection to a server?

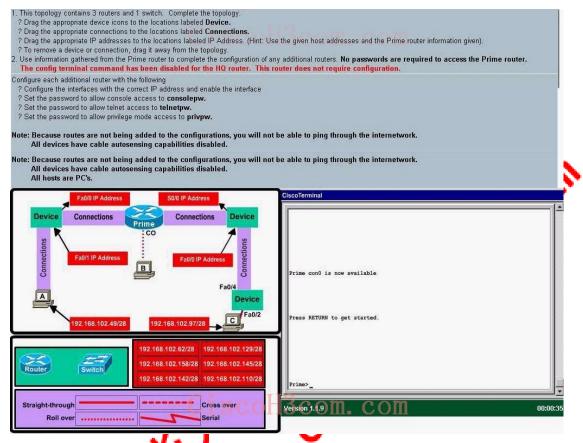
A: denial of service B: brute force

C: reconnaissance

D: Trojan horse

Correct Answers: A

130. LAB



131. When a new trunk is equifigured on a 2950 switch, which VLANs by default are allowed over the trunk link?

A: no VLAN

B: all VEAN C: one VLANS 1 - 64 D: oney the VLANS that are specified when creating the trunk Correct Answers: B

132. What should be part of a comprehensive network security plan?

A: Allow users to develop their own approach to network security.

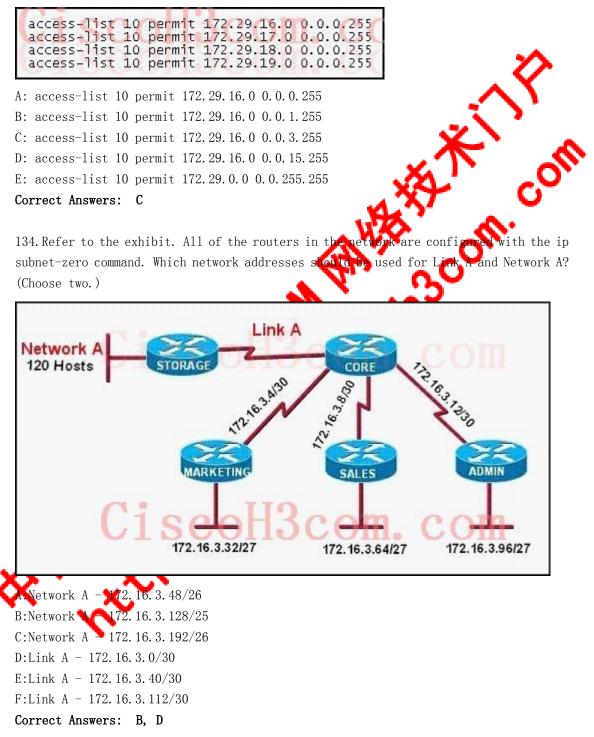
B: Physically secure network equipment from potential access by unauthorized individuals.

C: Encourage users to use personal information in their passwords to minimize the likelihood of passwords being forgotten.

D: Delay deployment of software patches and updates until their effect on end-user equipment is well known and widely reported.

E: Minimize network overhead by deactivating automatic antivirus client updates. Correct Answers: B

133. An access list was written with the four statements shown in the graphic. Which single access list statement will combine all four of these statements into a single statement that will have exactly the same effect?



135. At which layers of the OSI model do WANs operate? (Choose two.)

A:application layer B:session layer C:transport layer D:network layer E:datalink layer F:physical layer Correct Answers: E, F

136. A network administrator wants to ensure that only the server can connect to port Fa0/1 on a Catalyst switch. The server is plugged into the switch Fa0/1 port and the network administrator is about to bring the server online. What can the administrator do to ensure that only the MAC address of the server is allowed by switch port Fa0/1? (Choose two.)

A:Configure port Fa0/1 to accept connections only from the static IP address of the server.

B:Employ a proprietary connector type on Fa0/1 that is incompatible with other host connectors.

C:Configure the MAC address of the server as a static entry associated with port FaO/1. D:Bind the IP address of the server to its MAC address on the switch to prevent other hosts from spoofing the server IP address.

E:Configure port security on Fa0/1 to reject traffic with a source MAC address other than that of the server.

F:Configure an access list on the switch to deny server traffic from entering any port other than FaO/1.

Correct Answers: C,

137. Refer to the exhibit A network associate has configured the internetwork that is shown in the exhibit but has failed to configure routing properly. Which configuration will allow the hosts on the Branch LAN to access resources on the HQ LAN with the least impact on order processing and WAN bandwidth?



A: HQ(config)# ip route 192.168.1.0 255.255.0 192.168.2.5 Branch(config)# ip route 172.16.25.0 255.255.0 192.168.2.6 B: HQ(config)# router rip HQ(config-router)# network 192.168.2.0 HQ(config-router)# network 172.16.0.0 Branch(config)# router rip Branch (config-router) # network 192.168.1.0 Branch (config-router) # network 192.168.2.0 C: HQ(config) # router eigrp 56 HQ(config-router) # network 192.168.2.4 HQ(config-router) # network 172.16.25.0 Branch(config)# router eigrp 56 Branch (config-router) # network 192.168.1.0 Branch (config-router) # network 192.168.2.4 D: HQ(config) # router ospf 1 HQ(config-router) # network 192.168.2.4 0.0.0.3 area 0 HQ(config-router)# network 172.16.25.0 0.0.0.255 area 0 Branch(config)# router ospf 1 Branch (config-router) # network 192.168.1.0 0.0.0.255 area Branch (config-router) # network 192.168.2.4 0.0.0.3 area Correct Answers: A 138. Which additional configuration step is neces an access

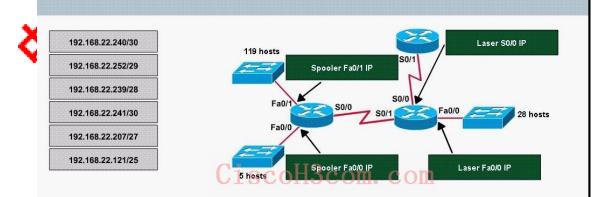
point that has SSID broadcasting disabled?

- A: Set the SSID value in the client software to public.
- B: Configure open authentication on the AP and the client.
- C: Set the SSID value on the client to the SSID configured on the AP.
- D: Configure MAC address filtering to permit the dignt to connect to the AP.

Correct Answers: C

139. LAB

Printers, Inc. is redesigning the network that connects its three locations. The administrator gave the networking team 192.168.22.0 to use for addressing the entire network. After subnetting the address, the team is ready to assign the addresses. The administrator plans to configure **ip subnet-zero** and use RIP v2 as the routing protocol. As a member of the networking team, you must address the network and at the same time conserve unused addresses for future growth. With those goals in mind, drag the host addresses on the left to the correct router interface. One of the routers is partially configured. Move your mouse over a router to view its configuration. Not all of the host addresses on the left are necessary.



140. The OSPF Hello protocol performs which of the following tasks? (Choose two.)

A:It provides dynamic neighbor discovery.

B:It detects unreachable neighbors in 90 second intervals.

C:It maintains neighbor relationships.

D:It negotiates correctness parameters between neighboring interfaces.

E:It uses timers to elect the router with the fastest links as the designated router.

F:It broadcasts hello packets throughout the internetwork to discover all routers that are running OSPF.

Correct Answers: A, C

141. Refer to the output from the show running-config command in the exhibit. What should the administrator do to allow the workstations connected to the FastEthernet 0/0 interface to obtain an IP address?



- B: Add access-list 14 permit any any to the access list configuration.
- C: Configure the IP address of the FastEtherent 0/0 interface to 10.90.201.1.
- D: Add an interface description to the FastEthernet 0/0 interface configuration.

Correct Answers: C

142. Refer to the exhibit. What IP address should be assigned to Workstation A?



A:FTP B:Telnet C:SMTP D:DNS E:HTTP

ACL? (Choose three.)

F:POP3 Correct Answers: D, E, F

145. Why does the data communication industry use the layered OSI reference model? (Choose two.) $% \left(\mathcal{A}_{1}^{2}\right) =0$

A:It divides the network communication process into smaller and simpler components, thus aiding component development, design, and troubleshooting.

B:It enables equipment from different vendors to use the same electronic components, thus saving research and development funds.

C:It supports the evolution of multiple competing standards, and thus provides business opportunities for equipment manufacturers.

D:It encourages industry standardization by defining what functions occur at each layer of the model.

E:It provides a means by which changes in functionality in one ayer require change in other layers.

Correct Answers: A, D

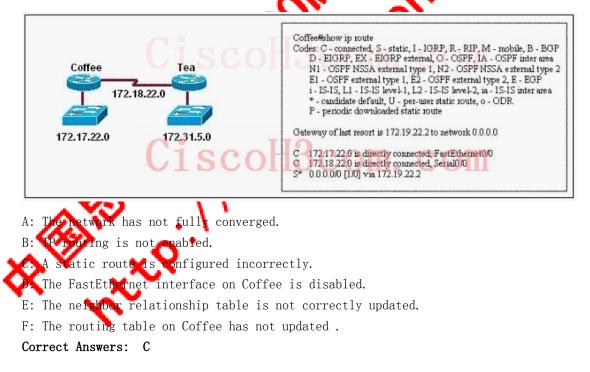
146. Drop



Drag and drop question. Drag the items to the proper locations. Correct Answers:



147. Users on the 172. 17. 22. 0 network cannot reach the server located on the 172. 31. 5. 0 network. The network administrator connected to couter Coffee via the console port, issued the show ip route command, and was able to ping the server. Based on the output of the show ip route command and the topology shown in the graphic, what is the cause of the failure?



148. The network security policy requires that only one host be permitted to attach dynamically to each switch interface. If that policy is violated, the interface should shut down. Which two commands must the network administrator configure on the 2950 Catalyst switch to meet this policy? (Choose two.)

A:Switch1(config-if)# switchport port-security maximum 1
B:Switch1(config)# mac-address-table secure
C:Switch1(config)# access-list 10 permit ip host
D:Switch1(config-if)# switchport port-security violation shutdown
E:Switch1(config-if)# ip access-group 10
Correct Answers: A, D

149. What is the maximum data rate specified for IEEE 802.11b WLANs?

- A: 10 Mbps
- B: 11 Mbps
- C: 54 Mbps
- D: 100 Mbps
- Correct Answers: B

150. Refer to the exhibit. A network associate has configured OPF with the command:

City(config-router)# network 192.168.12.64 0.0.0

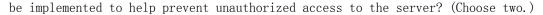
After completing the configuration, the associate discovers that not all the interfaces are participating in OSPF. Which three of the interfaces shown in the exhibit will participate in OSPF according to this configuration statement? (Choose three.)

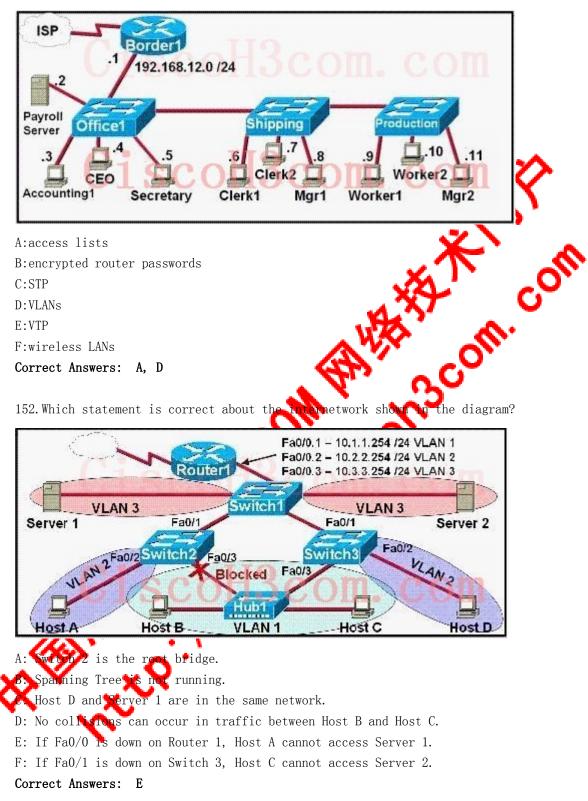
Interface	IP-Address	OK?	Method	Status	Protoco
FastEthernet0/0	192.168.12.48	YES	manual	up	up
FastEthernet0/1	192.168.12.65	YES	manual	up	up
Serial0/0	192.168.12.121	YES	manual	up	up
Serial0/1	unassigned	YES	unset	up	up
Serial0/1.102 💼	192.168.12.125	YES	manual	up	up
Serial0/1.103	192.168.12.129	YES	manual	up	up
Serial0/1.104 📕 🛾 City#	192.168.12.133	YES	manual	• up	up
FastIthernet0 /0	8				
FastEthernet <mark>0</mark> /1					

F:Serial0/1.104 Correct Answers: B, C, D

E:Serial0/1.103

151. Refer to the exhibit. The FMJ manufacturing company is concerned about unauthorized access to the Payroll Server. The Accounting1, CEO, Mgr1, and Mgr2 workstations should be the only computers with access to the Payroll Server. What two technologies should





153. Which statements are true about EIGRP successor routes? (Choose two.)

A:A successor route is used by EIGRP to forward traffic to a destination. B:Successor routes are saved in the topology table to be used if the primary route fails. C:Successor routes are flagged as "active" in the routing table. D:A successor route may be backed up by a feasible successor route. E:Successor routes are stored in the neighbor table following the discovery process. Correct Answers: A, D 154. Which of the following is true regarding the use of switches and hubs for network connectivity? A: Switches take less time to process frames than hubs take. B: Switches do not forward broadcasts. C: Hubs can filter frames. D: Using hubs can increase the amount of bandwidth available to hosts E: Switches increase the number of collision domains in the netw Correct Answers: E ll be in the ARP cache 155. Refer to the exhibit. After HostA pings HostB, which, entr of HostA to support this transmission? Fa0/1 Fa0/1 IP - 10.1.2.5 /30 IP - 192.168.4.6 /24 MAC-000f.2480.8917 MAC-000f.2405.2425 Fa0/0 Router2 Route Fa0/0 IP - 10.1.2.6 /30 IP - 192.168.6.1 /24 MAC- 000f.2405.2424 MAC-000f.2480.8916 IP - 192.168.6.2 /24 Switch1 Fa0/24 MAC-000f.2485.8918 HostB 3con HostA IP -192.168.4.7 /24 IP - 192.168.6.27 /24 MAC - 0010.5a0c.feae MAC - 0010.5a0c.fd86 Gateway - 192.168.4.6 Gateway - 192.168.6.1

ΟΑ.

Interface Address	Physical Address	Туре
192.168.4.7	000f.2480.8916	dynamic

CB.

Interface Address	Physical Address	Туре
192.168.4.7	0010.5a0c.feae	dynamic

οc.

Interface Address	Physical Address	Туре
192.168.6.1	0010.5a0c.feae	dynamic

OD.

	Physical Address	Туре
192.168.6.1	000f.2480.8916	dynamic

OE.

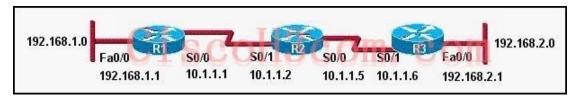
Interface Address	Physical Address	Туре
192.168.6.2	0010.5a0c.feae	dynamic

O.F.

Interface Address	Physical Address	Туре
192.168.6.2	000f.2485.8918	dynamic
Please Inner correct Answer	0001.2400.0010	aynamic
riedse indered ied i driewer		
heivi		
Correct Answers: D		



protocol. The network has converged, and the routers in this network are functioning properly. The FastEthernet0/0 interface on R1 goes down. In which two ways will the routers in this network respond to this change? (Choose two.)



A:All routers will reference their topology database to determine if any backup routes to the 192.168.1.0 network are known.

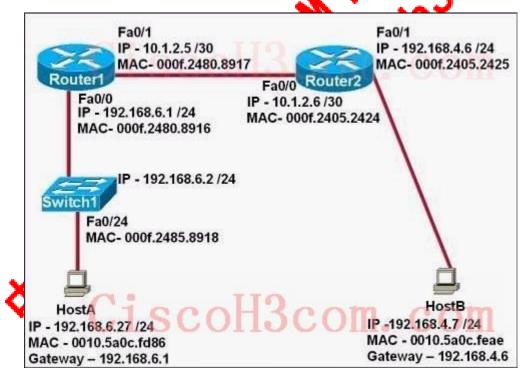
B:Routers R2 and R3 mark the route as inaccessible and will not accept any further routing updates from R1 until their hold-down timers expire.

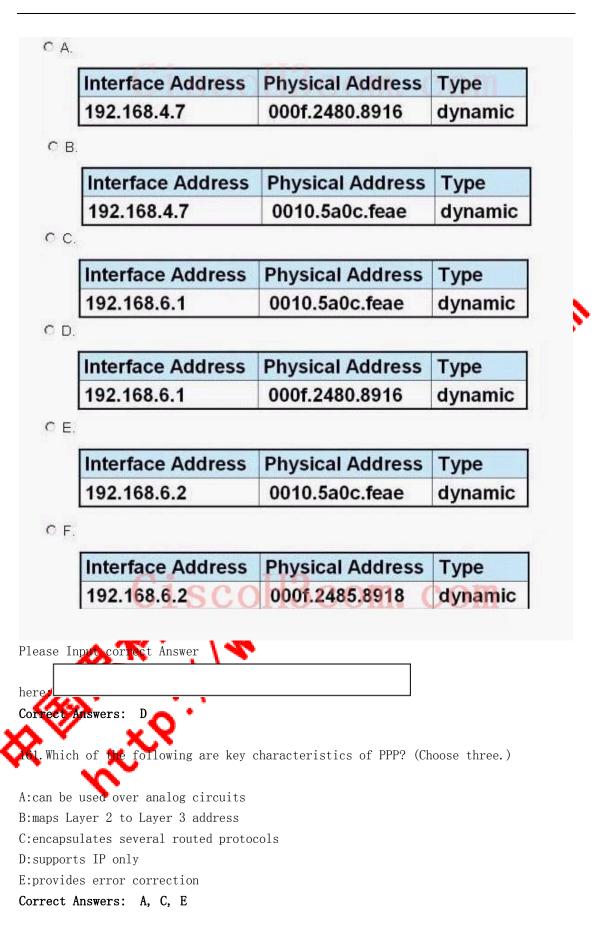
C:Because of the split-horizon rule, router R2 will be prevented from sending erroneous information to R1 about connectivity to the 192.168.1.0 network.

D:When router R2 learns from R1 that the link to the 192.168.1.0 network has been lost, R2 will respond by sending a route back to R1 with an infinite metric to the 192.168.1.0 network.

E:R1 will send LSAs to R2 and R3 informing them of this change, and then all routers will send periodic updates at an increased rate until the network again converges. Correct Answers: C, D

160. Refer to the exhibit. After HostA pings HostB which entry will be in the ARP cache of HostA to support this transmission?





162. The network administrator of the Oregon router adds the following command to the

router configuration: ip route 192.168.12.0 255.255.0 172.16.12.1. What are the results of adding this command? (Choose two.)

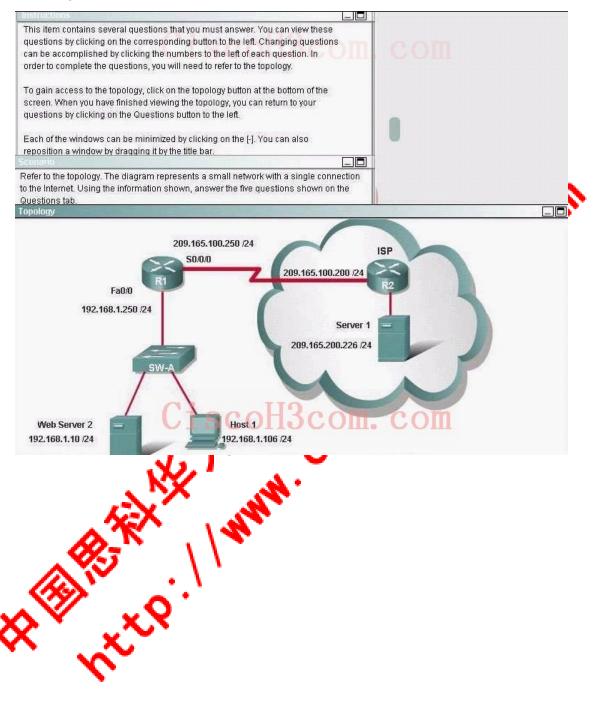


Correct Answers: A, C

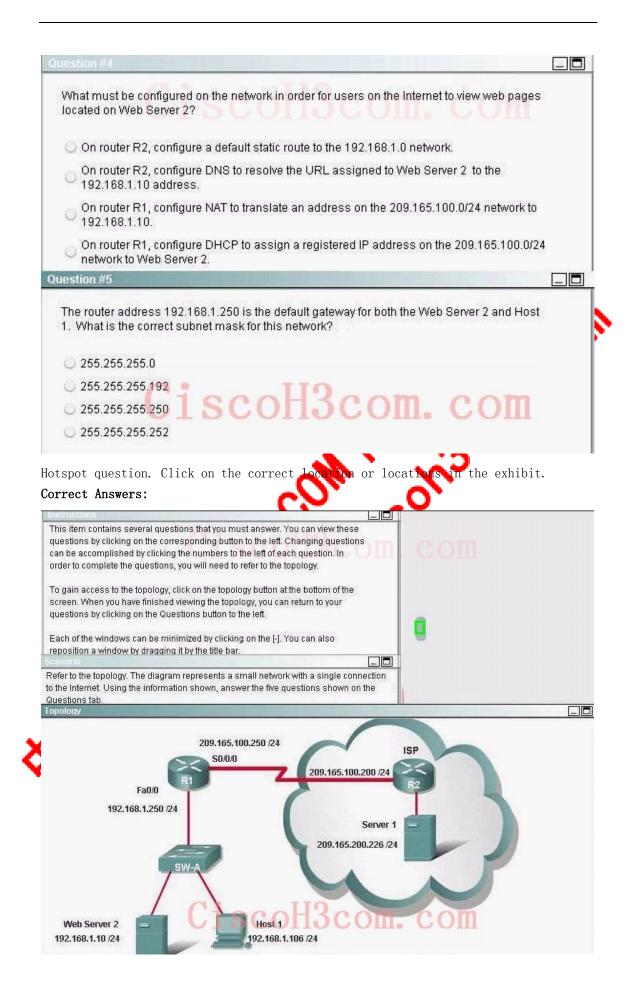
F:Traffic for network 172.16.12.0 is forwarded to the 192.168.12.0 network.E:This route is automatically propagated throughout the entire network.D:Traffic for all networks is forwarded to 172.16.12.1.C:Traffic for network 192.168.12.0 is forwarded to 172.16.12.1.B:The command invokes a dynamic routing protocol for 192.168.12.0.

A:The command establishes a static route. Correct Answers: C

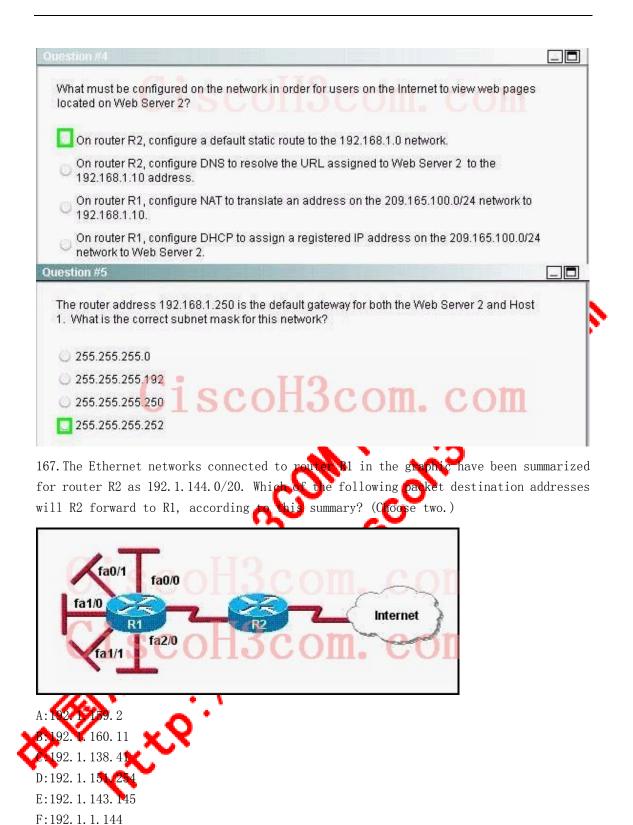
166. Hotspot



estion #1	_
f the router R1 has a packet with a destination address 192.168.1.255, what describes the operation of the network?	
R1 will forward the packet out all interfaces.	
\bigcirc R1 will drop this packet because this it is not a valid IP address.	
As R1 forwards the frame containing this packet, Sw-A will add 192.168.1.255 to its MAC table.	
R1 will encapsulate the packet in a frame with a destination MAC address of FF-FF-FF -FF-FF.	
As R1 forwards the frame containing this packet, Sw-A will forward it to the device assigned the IP address of 192.168.1.255.	
estion #2	_
Users on the 192.168.1.0 /24 network must access files located on the Server 1. What route could be configured on router R1 for file requests to reach the server?	
🔘 ip route 0.0.0.0 0.0.0.0 s0/0/0	
🔘 ip route 0.0.0.0 0.0.0.0 209.165.200.226	
ip route 209.165.200.0 255.255.255.0 192.168.1.250	
ip route 192.168.1.0 255.255.255.0 209.165.100.250	
estion #3	_
When a packet is sent from Host 1 to Server 1, in how many different frames will the packet be encapsulated as it is sent across the internetwork?	
© 1	
and an and an and an	
^{o2} CiccoH2com com	
CiscoH3com. com	
CiscoH3com. com	
CiscoH3com. com	
CiscoH3com. com	

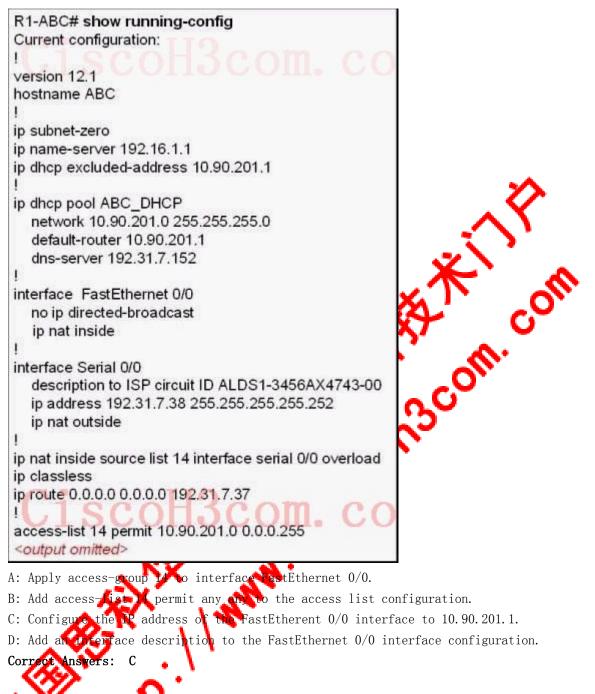


		_
	R1 has a packet with a destination address 192.168.1.255, what describes the the hetwork?	
R1 will fo	rward the packet out all interfaces.	
🔾 R1 will di	rop this packet because this it is not a valid IP address.	
As R1 for table.	wards the frame containing this packet, Sw-A will add 192.168.1.255 to its MAC	
O R1 will ei -FF-FF.	ncapsulate the packet in a frame with a destination MAC address of FF-FF-FF	
	wards the frame containing this packet, Sw-A will forward it to the device I the IP address of 192.168.1.255.	
estion #2		
	9 192.168.1.0 /24 network must access files located on the Server 1. What route figured on router R1 for file requests to reach the server?	
🔘 ip route ().0.0.0 0.0.0.0 s0/0/0	
) ip route (0.0.0.0 0.0.0.0 209.165.200.226	
🔲 ip route 2	209.165.200.0 255.255.255.0 192.168.1.250	
🔘 ip route 1	92.168.1.0 255.255.255.0 209.165.100.250	
estion #3		
	xet is sent from Host 1 to Server 1, in how many different frames will the packet ated as it is sent across the internetwork?	
1 2 3	CiscoH3com.com	

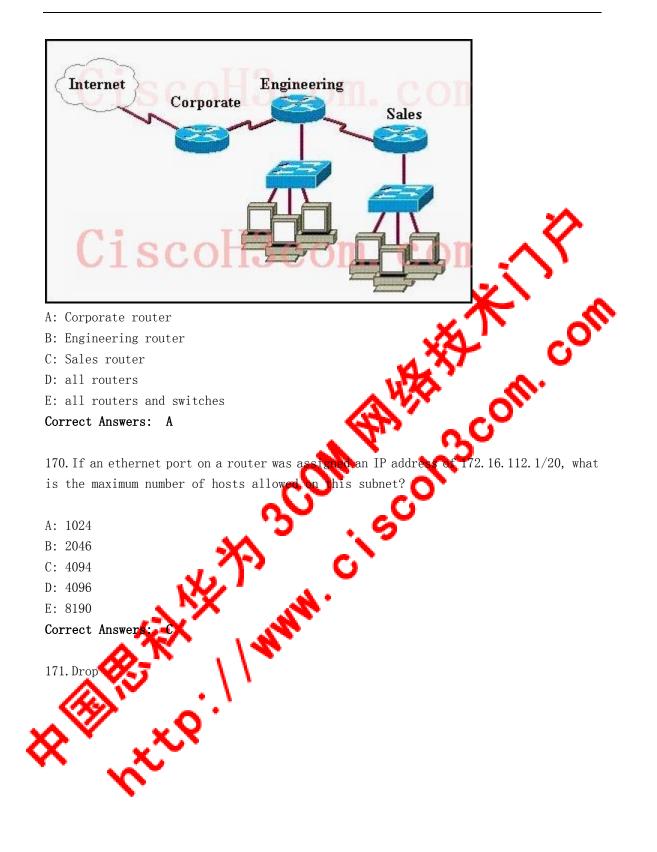


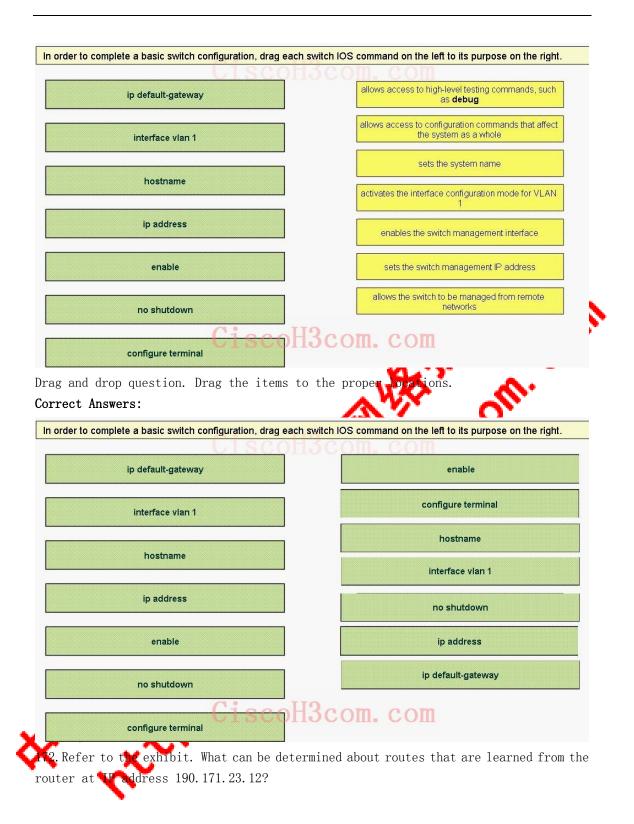
Correct Answers: A, D

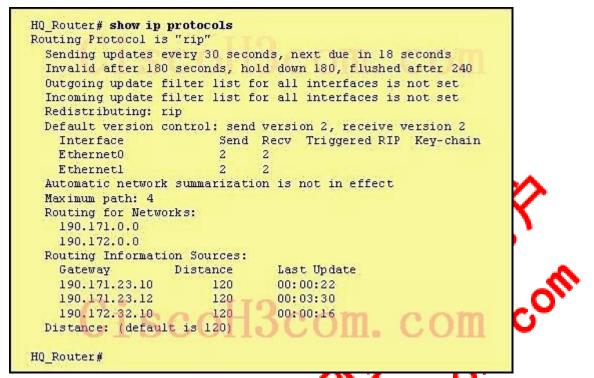
168. Refer to the output from the show running-config command in the exhibit. What should the administrator do to allow the workstations connected to the FastEthernet 0/0 interface to obtain an IP address?



169. A network administrator would like to implement NAT in the network shown in the graphic to allow inside hosts to use a private addressing scheme. Where should NAT be configured?



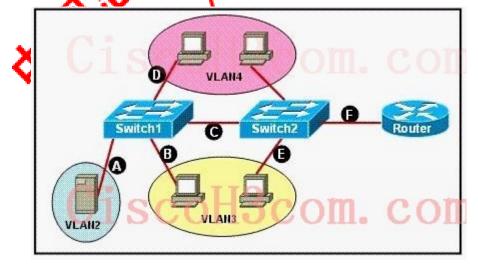




A: HQ_Router last received an update from 190(121,23,12 at 3:30 am.
B: If HQ_Router does not receive an update from 190(171, 23, 12 in 30 seconds, all routes from that source will be removed from the routing table.
C: If HQ_Router does not receive an update from 190, 171, 23, 12 in 30 seconds, all routes from that source will be flagged with a hold-down times.
D: 190, 171, 23, 12 is expected to send an update to HQ Router for network 190, 172, 0, 0 in 3 minutes and 30 seconds.

Correct Answers: B

173. Refer to the exhibit, Anetwork associate needs to configure the switches and router in the graphic so that the hosts in VLAN8 and VLAN4 can communicate with the enterprise server in VLAN2. Which two Ethernet segments would need to be configured as trunk links? (Choose two)



A:A B:B C:CD:D E:E F:F Correct Answers: C, F

174. Which tables of EIGRP route information are held in RAM and maintained through the om. com use of hello and update packets? (Choose two.)

A:neighbor table B:SPF table C:RTP table D:topology table E:query table F:DUAL table Correct Answers: A, D

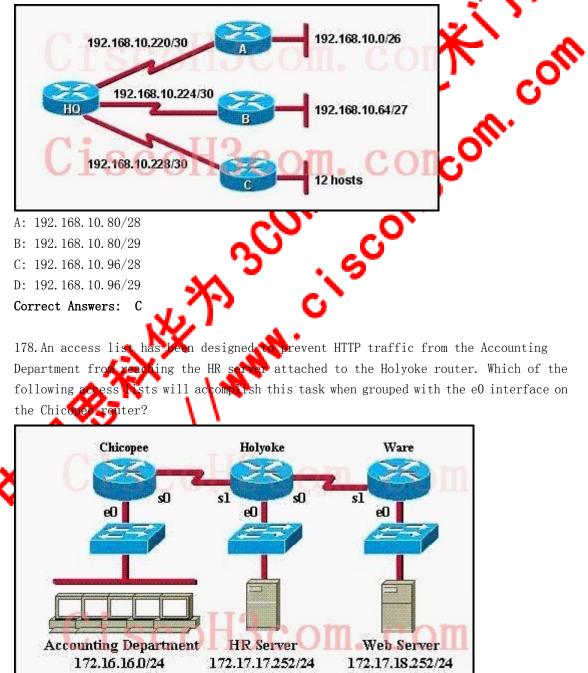
175. Refer to the exhibit. The FMJ manufacturing company is concerne d about unauthorized access to the Payroll Server. The Accounting, CEO, Mgr1, and Mgr2 workstations should be the only computers with access to the Paroll Server. What two technologies should be implemented to help prevent un he server? (Choose two.) rized access t

ISP Border1
.1 /192.168.12.0 /24
192.100.12.0724
Payroll Office1 Shipping Production
Server Officer
Clerk2 , Worker2
Accounting1 Secretary Clerk1 Mgr1 Worker1 Mgr2
Naccess lists
B:encrypted router passwords
C:STP
D:VLANs
E:VTP
F:wireless LANs
Correct Answers: A, D

176. A router learns about a remote network from EIGRP, OSPF, and a static route. Assuming all routing protocols are using their default administrative distance, which route will

the router use to forward data to the remote network?A: The router will use the static route.B: The router will use the OSPF route.C: The router will use the EIGRP route.D: The router will load balance and use all three routes.Correct Answers: A

177. Refer to the exhibit. A new subnet with 12 hosts has been added to the network. Which subnet address should this network use to provide enough useable addresses while wasting the fewest addresses?



A: permit ip any any deny tcp 172.16.16.0 0.0.0.255 172.17.17.252 0.0.0.0 eq 80 B: permit ip any any deny tcp 172.17.17.252 0.0.0.0 172.16.16.0 0.0.0.255 eq 80 C: deny tcp 172.17.17.252 0.0.0.0 172.16.16.0 0.0.0.255 eq 80 permit ip any any D: deny tcp 172.16.16.0 0.0.0.255 172.17.17.252 0.0.0.0 eq 80 permit ip any any Correct Answers: D

179. What is one reason that WPA encryption is preferred over WEP?

A: A WPA key is longer and requires more special characters than the WEP key.
B: The access point and the client are manually configured with different WPA key values
C: WPA key values remain the same until the client configuration is changed.
D: The values of WPA keys can change dynamically while the system is used.
Correct Answers: D

180. Refer to the exhibit. The network administration must complete the connection between the RTA of the XYZ Company and the service provider. To accomplish this task, which two devices could be installed at the customer size to provide a connection through the local loop to the central office of the provider (Choose two).



181. When a router is connected to a Frame Relay WAN link using a serial DTE interface, how is the interface clock rate determined?

A: It is supplied by the CSU/DSU.B: It is supplied by the far end router.C: It is determined by the clock rate command.D: It is supplied by the Layer 1 bit stream timing.Correct Answers: A

182. When a new trunk link is configured on an IOS based switch, which VLANs are allowed over the link?

A: By default, all defined VLANs are allowed on the trunk.

B: Each single VLAN, or VLAN range, must be specified with the switchport mode command.C: Each single VLAN, or VLAN range, must be specified with the vtp domain command.D: Each single VLAN, or VLAN range, must be specified with the vlan database command.Correct Answers: A

183. Acknowledgements, sequencing, and flow control are characteristics of which OSI layer?

A: Layer 2
B: Layer 3
C: Layer 4
D: Layer 5
E: Layer 6
F: Layer 7

Correct Answers: C

184. Which of the following are types of flow control? (Incose three.)

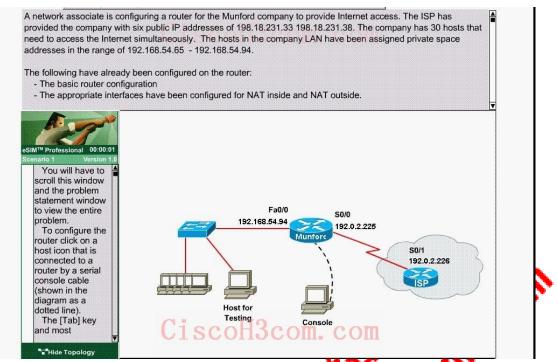
A:buffering B:cut-through C:windowing D:congestion avoida E:load balancing **Correct Answers:** A

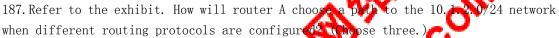
185. Which protocol provides a method of sharing VLAN configuration information between

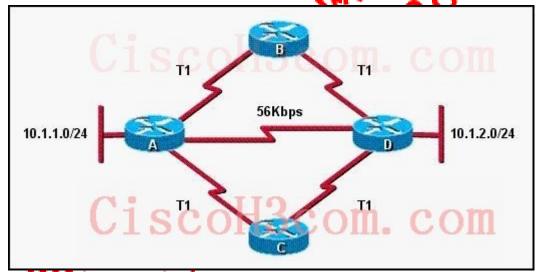
186. LAB

Correct Answers: A

C: ISL D: 802.1Q E: VLSM







A:1 Labor is the routing protocol, only the path AD will be installed in the routing table by default.

bilf RIPv2 is the routing protocol, the equal cost paths ABD and ACD will be installed in the routing table by default.

C:If EIGRP is the routing protocol, only the path AD will be installed in the routing table by default.

D:If EIGRP is the routing protocol, the equal cost paths ABD and ACD will be installed in the routing table by default.

E:If EIGRP and OSPF are both running on the network, the EIGRP paths will be installed in the routing table.

F:If EIGRP and OSPF are both running on the network, the OSPF paths will be installed in the routing table.

Correct Answers: A, D, E

188. Which two devices can interfere with the operation of a wireless network because they operate on similar frequencies? (Choose two.)

A:copier B:microwave oven C:toaster D:cordless phone E:IP phone F:AM radio Correct Answers: B, D 189. Refer to the exhibit. Why does RouterA show multiple unequal 192. 168. 81. 0/24? RouterA# show ip eigrp topology IP-EIGRP Topology Table for AS(109)/ID(192.168.80.28) Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply, r - reply Status, s - sia Status P 192.168.90.0 255.255.255.0, 2 successors, FD is 0 via 192.168.80.28 (46251776/46226176), Ethernet0 via 192.168.81.28 (46251776/46226176), Ethernet1 via 192.168.80.31 (46277376/46251776), SerialO P 192.168.81.0 255.255.255.0, 1 successors, FD is 307200 via Connected, Ethernetl via 192.168.81.28 (307200/281600), Ethernet1 via 192.168.80.28 (307200/281600), Ethernet0 via 192.168.80.31 (332800/307200), SerialO

A: A variance was configured for EFGRP autonomous system 109.
B: The EIGRP topology table displays all routes to a destination.
C: The EIGRP topology table shows only backup routes to a destination.
D: Muteralethoating static routes were configured to network 192. 168. 81. 0 via interface Seriaro
correct Answers: B

190. Which statement is true about full-duplex Ethernet in comparison to half-duplex Ethernet?

A: Full-duplex Ethernet consists of a shared cable segment. Half-duplex Ethernet provides a point-to-point link.

B: Full-duplex Ethernet uses a loopback circuit to detect collisions. Half-duplex Ethernet uses a jam signal.

C: Full-duplex Ethernet can provide higher throughput than can half-duplex Ethernet of the same bandwidth.

D: Full-duplex Ethernet uses two wires to send and receive. Half-duplex Ethernet uses one wire to send and receive.

Correct Answers: C

191. Which are valid modes for a switch port used as a VLAN trunk? (Choose three.)

A:transparent B:auto C:on D:desirable E:blocking F:forwarding Correct Answers: B, C, D

vers:



192. Drop

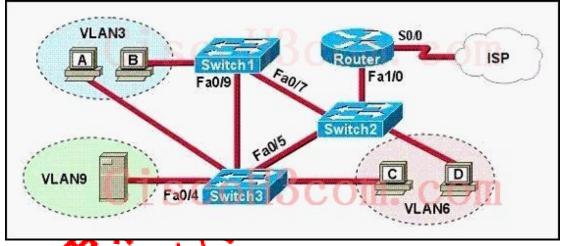
A host with the address of 192.168.125.34 /27 needs to be denied access to all hosts outside its own subnet. To accomplish this, complete the command in brackets, [access-list 100 deny protocol address mask any], by dragging the appropriate options on the left to their correct placeholders on the right.

0.0.0.0	protocol
192.168.125.0	
192.168.125.32	address
192.168.125.34	
255.255.255.255	mask
ip	
tcp	
udp	

Drag and drop question. Drag the items to the proper locations.

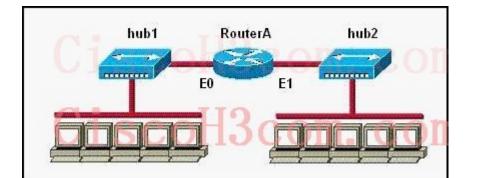
A host with the address of 192.168.125.34 /27 needs to be denied access to all hosts outside its own subnet. To accomplish this, complete the command in brackets, [access-list 100 deny protocol address mask any], by dragging the appropriate options on the left to their correct placeholders on the right. 0.0.0.0 protocol ip 192.168.125.0 address 192.168.125.32 192.168.125.34 192.168.125.34 mask 255.255.255.255 0.0.0.0 ip tcp H3com. com udp

193. Refer to the exhibit. A problem with network connectivity has been observed at is suspected that the cable connected to switch port Fa0/9 on Switch1 is disconnected. What would be an effect of this cable being disconnected?



A: Host B model not be able to access the server in VLAN9 until the cable is reconnected.
B: Communication between VLAN3 and the other VLANs would be disabled.
C: the transfer of files from Host B to the server in VLAN9 would be significantly slower.
b: For tess than a minute, Host B would not be able to access the server in VLAN9. Then normal network function would resume.
Correct Answers: D

194. Refer to the graphic. How many collision domains are shown?

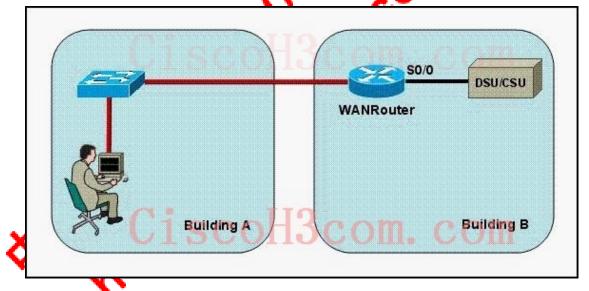


A: one

- B: two
- C: three
- D: four
- E: six
- F: fourteen

Correct Answers: B

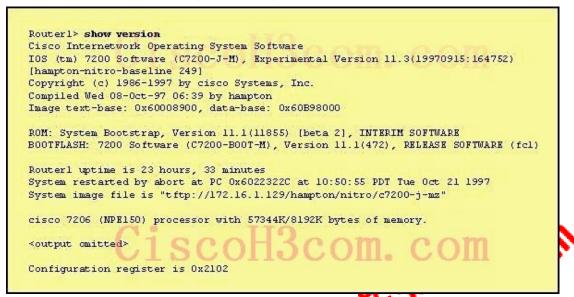
195. Refer to the exhibit. The network administrator is in a campus building distant from Building B. WANRouter is hosting a newly installed WAN link on interface SO/0. The new link is not functioning and the administrator needs to determine if the correct cable has been attached to the SO/0 interface. How can the administrator accurately verify the correct cable type on SO/0 in the most efficient manner?



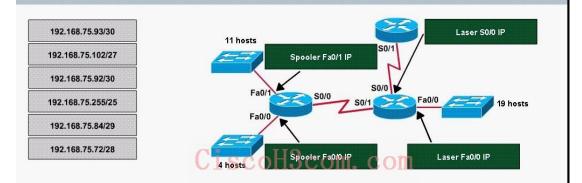
- A: Telnet to WANRouter and execute the command show interfaces SO/O
- B: Telnet to WANRouter and execute the command show processes SO/O
- C: Telnet to WANRouter and execute the command show running-configuration
- D: Telnet to WANRouter and execute the command show controller SO/O
- E: Physically examine the cable between WANRouter SO/O and the DCE.

F: Establish a console session on WANRouter and execute the command show interfaces SO/O Correct Answers: D

196. Refer to the exhibit. For what two reasons has the router loaded its IOS image from the location that is shown? (Choose two.)



Printers, Inc. is redesigning the network that connects its three locations. The administrator gave the networking team 192.168.75.0 to use for addressing the entire network. After subnetting the address, the team is ready to assign the addresses. The administrator plans to configure **ip subnet-zero** and use RIP v2 as the routing protocol. As a member of the networking team, you must address the network and at the same time conserve unused addresses for future growth. With those goals in mind, drag the host addresses on the left to the correct router interface. One of the routers is partially configured. Move your mouse over a router to view its configuration. Not all of the host addresses on the left are necessary.

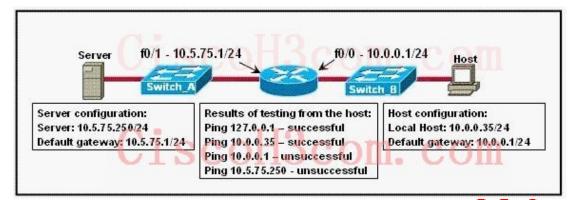


198. Peter to the exhibit. A technician is troubleshooting a host connectivity problem. The host is unable to ping a server connected to Switch_A. Based on the results of the testing, what could be the problem?

Correct Answers: A, C

197. LAB

E:Cisco routers will first attempt to load an image from TFTP for management purposes. D:Router1 defaulted to ROMMON mode and loaded the IOS image from a TFTP server. C:Router1 cannot locate a valid IOS image in flash memory. B:Router1 is acting as a TFTP server for other routers. A:Router1 has specific boot system commands that instruct it to load IOS from a TFTP server.



A: A remote physical layer problem exists.

- B: The host NIC is not functioning.
- oh3com.c C: TCP/IP has not been correctly installed on the host.
- D: A local physical layer problem exists.

Correct Answers: D

199. A routing protocol is required that support

- 1) routing update authentication
- 2) an addressing scheme that conserve
- 3) multiple vendors
- 4) a network with over 50 routers

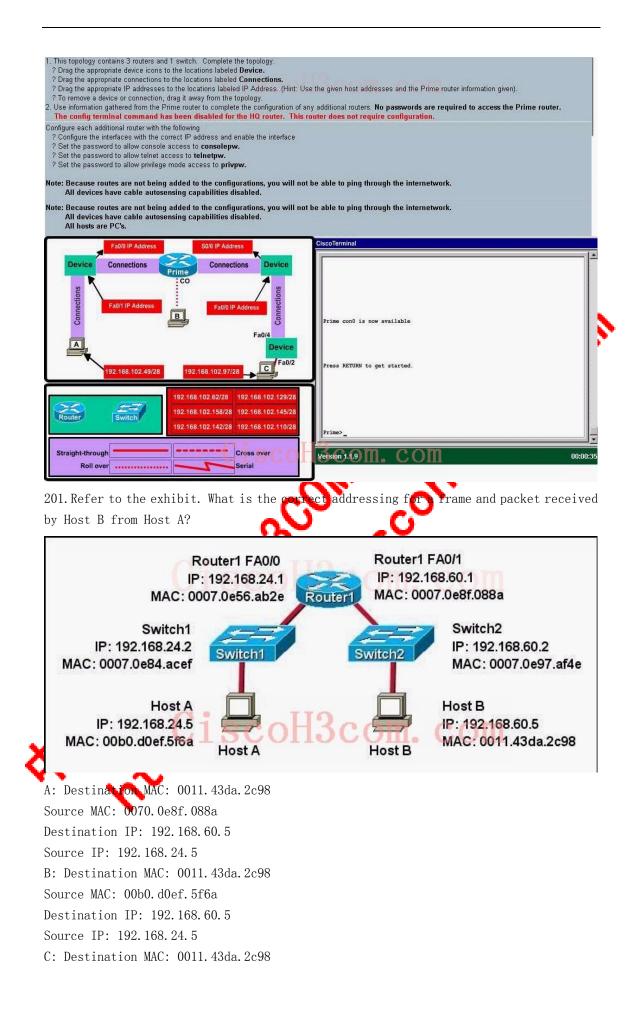
Which routing protocol ful these requireme

A: RIPv1

- B: RIPv2
- C: EIGRP

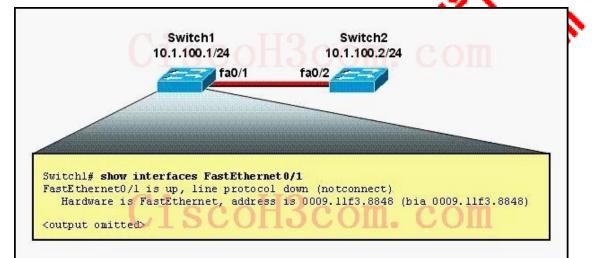
D: OSPF

Correct



Source MAC: 0070.0e8f.088a Destination IP: 192.168.60.5 Source IP: 192.168.60.1 D: Destination MAC: 0011.43da.2c98 Source MAC: 0070.0e97.af4e Destination IP: 192.168.60.5 Source IP: 192.168.60.2 **Correct Answers: A**

202. Refer to the exhibit. The network administrator has verified that a functioning cable connects Switch1 and Switch2. From the output that is shown, what two pieces of information can the administrator validly conclude? (Choose two.)



A:Using a source MAC address of 6009.11f3.8848, Switch2 is sending frames to Switch1. B:Interface fa0/1 on Switch1 is in a shutdown state.

C:The status of fa0/2 should be checked on Switch2.

D:There is likely to be an IP address issue on Switchl fa0/1.

E:The interface is functional at OSI Layer 1.

C, E

203 You and a co-worker have established wireless communication directly between your wheeless laptops. What type of wireless topology has been created?



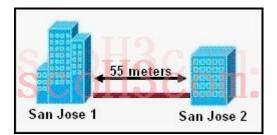
B: ESS

- C: IBSS
- D: SSID

Correct Answers: C

Correct Answers:

204. Refer to the exhibit. Two buildings on the San Jose campus of a small company must be connected to use Ethernet with a bandwidth of at least 100 Mbps. The company is concerned about possible problems from voltage potential differences between the two buildings. Which media type should be used for the connection?



- A: UTP cable
- B: STP cable
- C: coaxial cable
- D: fiber optic cable
- Correct Answers: D

205. What is the maximum data rate specified for IEEE 802.

- A: 10 Mbps
- B: 11 Mbps
- C: 54 Mbps
- D: 100 Mbps
- Correct Answers: B

in a com 206. Refer to the output of the two-s ommands in the exhibit. If an administrator how w tries to ping host 10. 1. 8. 5 from host 10. 1. 6. 100. 11 the ICMP packets be processed by Router A?

<some omitted="" output="" text=""> router rip network 10.0.0.0</some>
network 10.0.00
ip classless
RouterA# show ip route
<some omitted="" output="" text=""></some>
Gateway of last resort is 10.1.5.5 to network 0.0.0.0
10.0.0.0/24 is subnetted, 2 subnets
R 10.1.3.0 [120/1] via 10.1.2.2, 00:00:00, Serial0/0
C 10.1.2.0 is directly connected, Seria10/0
C 10.1.5.0 is directly connected, Seria10/1
C10.1.6.0 is directly connected, FastEthernet0/0
R* 0.0.0.0/0 [120/1] via 10.1.5.5, 00:00:00, Seria10/1

A: The packets will be discarded.

B: The packets will be routed out the SO/O interface.

C: The packets will be routed out the S0/1 interface.

D: The packets will be routed out the Fa0/O interface. Correct Answers: $\ensuremath{\mathsf{C}}$

207. A network administrator is configuring the routers in the graphic for OSPF. The OSPF process has been started and the networks have been configured for Area 0 as shown in the diagram. The network administrator has several options for configuring RouterB to ensure that it will be preferred as the designated router (DR) for the 172. 16. 1. 0 /24 LAN segment. What configuration tasks could be used to establish this preference? (Choose three.)

198.1 <mark>8</mark> .0.1	101 /15	E.	0/0 170 10 1	100 101		
(R)	172.16.1.124	/24	a ^{0/0} 172.16.1.	123/24 Fa0/0	-	6
RouterA	Fa0/0	Switch	172.16.1.		outerC	C S

A:Configure the priority value of the Fa0/0 interface of RouterB to a higher value than any other interface on the Ethernet network. B:Change the router id of Router B by assigning the IM address 172.16.1.130/24 to the Fa0/0 interface of RouterB. C:Configure a loopback interface on RouterB with an IP address higher than any IP address

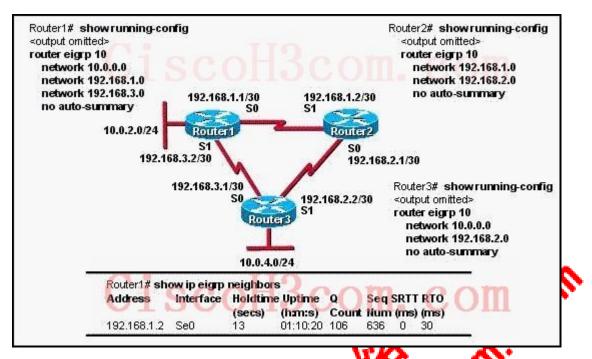
C:Configure a loopback interface on RouterB with an IP address higher than any IP address on the other routers.

D:Change the priority value of the Fa0/Q interface of RouterB to zero.

E:Change the priority values of the Fa0.0 interfaces of RouterA and RouterC to zero. F:No further configuration is necessary.

Correct Answers: A, C, E

208. P addresses and routing for the network are configured as shown in the exhibit. The network administrator issues the show ip eigrp neighbors command from Router1 and receives the output shown below the topology. Which statement is true?



A: It is normal for Router1 to show one active n ent routing a time loops.

B: Routing is not completely configured on Route

C: The IP addresses are not configured proper on the Router and Router3 interfaces. Т the routers prevents Router1 and Router2 D: The no auto-summary command configure d or entron land from forming a neighbor relations

Correct Answers: B