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Bahir Dar University

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FACULTY OF COMPUTING

NETWORK AND DEVICE CONFIGURATION

EXIT EXAM MODAL QUESTION SHEET

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Bahir Dar Institute of Technology

February-2015

1. Which Cisco IOS mode displays a prompt of Router#?
 - A. user EXEC mode
 - B. setup mode
 - C. privileged EXEC mode
 - D. global configuration mode
2. Which switch command would a network administrator use to determine if there are encapsulation or media errors on an interface?
 - A. show ip interface
 - B. show arp
 - C. show interfaces
 - D. show line
3. Refer to the exhibit. An administrator is trying to configure the switch but receives the error message that is displayed in the exhibit. What is the problem?

```
Switch>config t
      ^
% Invalid input detected at '^' marker.

Switch>|
```

- A. The administrator must first enter privileged EXEC mode before issuing the command.
 - B. The entire command, configure terminal, must be used.
 - C. The administrator must connect via the console port to access global configuration mode.
- The administrator is already in global configuration mode
4. Refer to the exhibit. Which element of IOS syntax is the expression MainOffice?

```
Switch(config) # hostname MainOffice
```

- A. an argument
- B. a subcommand
- C. a command
- D. a keyword

5. Which interface is the default SVI on a Cisco switch?
- A. VLAN 1
 - B. VLAN 99
 - C. FastEthernet 0/1
 - D. GigabitEthernet 0/1
6. A network administrator enters the service password-encryption command into the configuration mode of a router. What does this command accomplish?
- A. This command provides an exclusive encrypted password for external service personnel who are required to do router maintenance.
 - B. This command automatically encrypts passwords in configuration files that are currently stored in NVRAM.
 - C. This command encrypts passwords as they are transmitted across serial WAN links.
 - D. This command prevents someone from viewing the running configuration passwords.
7. Refer to the exhibit. A network technician is statically assigning an IP address to a PC. The default gateway is correct. What would be a valid IP address to assign to the host?

The exhibit shows a network configuration form with the following fields:

- IP address: []
- Subnet mask: 255 . 255 . 0 . 0
- Default gateway: 128 . 107 . 255 . 254

Below these fields, there are two radio buttons for DNS configuration:

- ☐ Obtain DNS server address automatically
- ☒ Use the following DNS server addresses:

Under the selected option, there are two more fields:

- Preferred DNS server: []
- Alternate DNS server: []

- A. 128.107.255.1
 - B. 128.108.100.10
 - C. 128.106.10.100
 - D. 128.107.255.254
8. When configuring SSH on a router to implement secure network management, a network engineer has issued the login local and transport input ssh line vty commands. What three

additional configuration actions have to be performed to complete the SSH configuration?

(Choose three.)

- A. Create a valid local username and password database.
 - B. Configure the correct IP domain name.
 - C. Configure role-based CLI access.
 - D. Generate the asymmetric RSA keys.
 - E. Set the user privilege levels.
9. Passwords can be used to restrict access to all or parts of the Cisco IOS. Select the modes and interfaces that can be protected with passwords. (Choose three.)
- A. privileged EXEC mode
 - B. router configuration mode
 - C. VTY interface
 - D. Ethernet interface
 - E. console interface
 - F. boot IOS mode
10. Which one of the following network devices has only two ports?
- A. Router
 - B. Bridge
 - C. Both a and b
 - D. None of the above
11. Which one of the following network devices transmits the data in the form of packets?
- A. Router
 - B. Bridge
 - C. Both a and b
 - D. None of the above

12. Which one of the following network devices is used to connect different networks?
- A. Hub
 - B. Switch
 - C. Router
 - D. All
13. Which one of the following network devices doesn't support both dynamic and static routing?
- A. Gateway
 - B. Router
 - C. Server
 - D. Pc
14. Which one of the following network devices doesn't have any security measures to protect the network?
- A. Modem
 - B. Router
 - C. Switch
 - D. Server
15. What type of address is physically assigned to the NIC of a workstation?
- A. MAC address
 - B. host address
 - C. IP address
 - D. network address
16. An administrator is adding voice and video service capabilities to an existing network. What design requirement is being satisfied by this situation?
- A. availability
 - B. security
 - C. manageability
 - D. scalability

17. A company is considering implementing virtualization solutions in a data center. What are three advantages of virtualization the company can expect to benefit from?
- A. improved disaster recovery
 - B. less employee training
 - C. reduced security requirements
 - D. shorter work week
18. A user calls to report that a PC cannot access the internet. The network technician asks the user to issue the command ping 127.0.0.1 in a command prompt window. The user reports that the result is four positive replies. What conclusion can be drawn based on this connectivity test?
- A. The IP address obtained from the DHCP server is correct.
 - B. The TCP/IP implementation is functional.
 - C. The PC can access the Internet. However, the web browser may not work.
 - D. The PC can access the network. The problem exists beyond the local network.
19. user issues a ping 198.51.100.5 command and receives a response that includes a code of 0. What does this code represent?
- A. network unreachable
 - B. host unreachable
 - C. port unreachable
 - D. protocol unreachable
20. A network administrator establishes a connection to a switch via SSH. What characteristic uniquely describes the SSH connection?
- A. direct access to the switch through the use of a terminal emulation program
 - B. remote access to the switch through the use of a telephone dialup connection
 - C. on-site access to a switch through the use of a directly connected PC and a console cable
 - D. out-of-band access to a switch through the use of a virtual terminal with password authentication
 - E. remote access to a switch where data is encrypted during the session

21. ----- is changing their routing decision to reflect changing the topology
- A. Nonadaptive algorithm
 - B. Adaptive algorithm
 - C. Static algorithm
 - D. Recursive algorithm
22. A data center has recently updated a physical server to host multiple operating systems on a single CPU. The data center can now provide each customer with a separate web server without having to allocate an actual discrete server for each customer. What is the networking trend that is being implemented by the data center in this situation?
- A. maintaining communication integrity
 - B. online collaboration
 - C. virtualization
 - D. BYOD
23. Which IPv4 header fields have no equivalent in an IPv6 header?
- A. protocol
 - B. TTL
 - C. version
 - D. flag
24. Refer to the exhibit. A ping to PC2 is issued from PC0, PC1, and PC3 in this exact order. Which MAC addresses will be contained in the S1 MAC address table that is associated with the Fa0/1 port?



- A. just the PC1 MAC address
 - B. just PC0 and PC1 MAC addresses
 - C. just the PC0 MAC address
 - D. PC0, PC1, and PC2 MAC addresses
 - E. just the PC2 MAC address
25. Which two items are used by a host device when performing an ANDing operation to determine if a destination address is on the same local network?
- A. network number and network number
 - B. destination IP address and subnet mask
 - C. source MAC address and subnet mask
 - D. destination MAC address and network number
26. A home network has both wired and wireless connectivity. From a laptop computer, the user issues a ping to the wireless printer located in another room. The first two echo requests fail, but the last two succeed. Additional pings are all successful. Why do the first two echo requests fail?
- A. The computer and the printer must join the wireless network first and that process takes time.
 - B. The distance between the computer and the printer causes delay on the first two pings.
 - C. The wireless printer must be activated and that takes time.
 - D. The computer must use ARP to obtain the MAC address of the printer and this process takes time.
27. A web designer calls to report that the web server web-s1.cisco.com is not reachable through a web browser. The technician uses command line utilities to verify the problem and to begin the troubleshooting process. Which two things can be determined about the problem

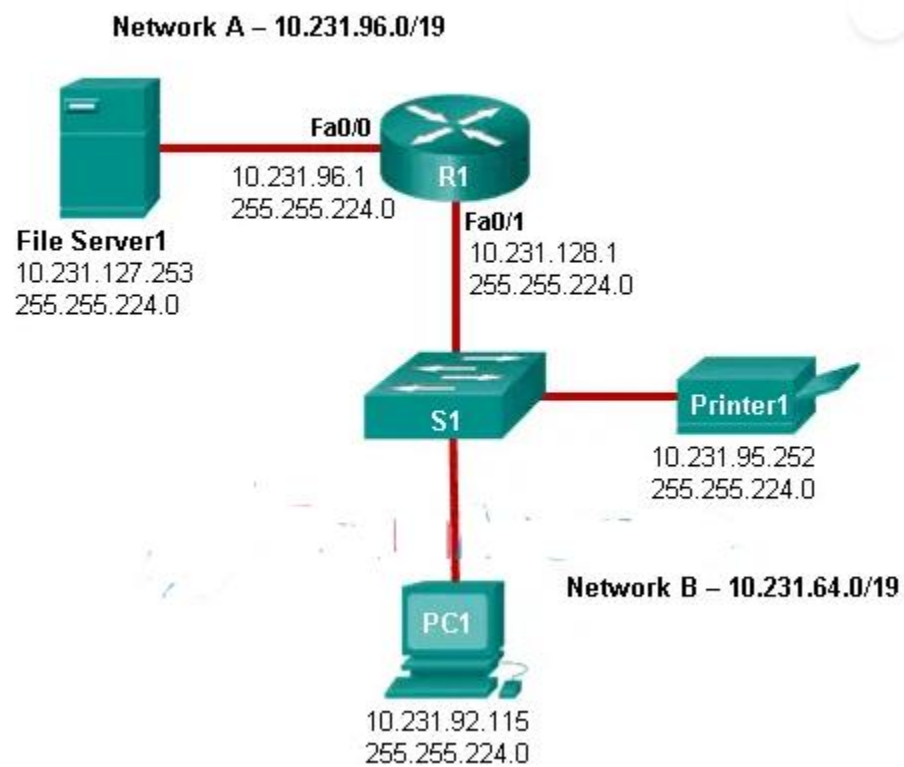
```
D:\>ping web-s1.cisco.com
Unknown host web-s1.cisco.com.

D:\>ping 192.168.0.10

Pinging 192.168.0.10 with 32 bytes of data:
Reply from 192.168.0.10: bytes=32 time<10ms TTL=128
Reply from 192.168.0.10: bytes=32 time<10ms TTL=128
Reply from 192.168.0.10: bytes=32 time<10ms TTL=128
Reply from 192.168.0.10: bytes=32 time<10ms TTL=128
```

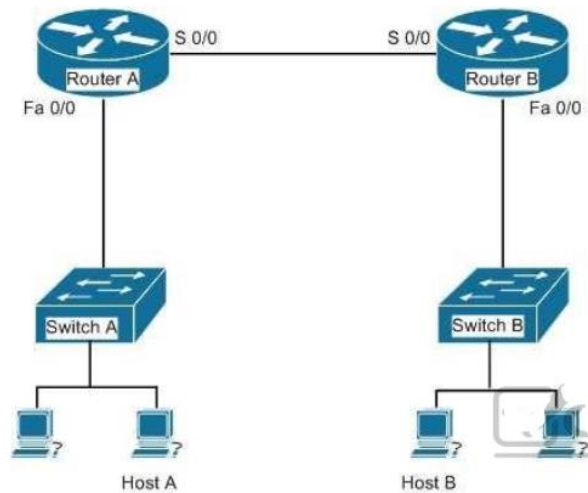

- A. A router is down between the source host and the server web-s1.cisco.com.
 - B. The web server at 192.168.0.10 is reachable from the source host.
 - C. The default gateway between the source host and the server at 192.168.0.10 is down.
 - D. DNS cannot resolve the IP address for the server web-s1.cisco.com.
 - E. There is a problem with the web server software on web-s1.cisco.com
28. Which three commands are used to set up secure access to a router through a connection to the console interface?
- A. line vty 0 4
 - B. password cisco
 - C. interface fastethernet 0/0
 - D. enable secret cisco
29. The global configuration command ip default-gateway 172.16.100.1 is applied to a switch. What is the effect of this command?
- A. The switch can communicate with other hosts on the 172.16.100.0 network.
 - B. The switch can be remotely managed from a host on another network.
 - C. The switch will have a management interface with the address 172.16.100.1.
 - D. The switch is limited to sending and receiving frames to and from the gateway 172.16.100.1.
30. Which forwarding action does a switch take when the destination MAC address of an Ethernet frame is an unknown unicast?
- A. The switch forwards the frame to the default gateway.
 - B. The switch forwards the frame the same way it does for broadcast and multicast MAC addresses.
 - C. The switch drops the frame.
 - D. The switch forwards the frame out a specified port for this type of address.

31. An administrator is troubleshooting connectivity on the office network. PC1 is able to send print jobs to Printer1, but is unable to access File Server1. Which action would correct the problem?



- A. Change the R1 Fa0/1 interface IP address to 10.231.64.1.
- B. Change the R1 Fa0/0 interface subnet mask to 255.255.0.0.
- C. Change the File Server1 IP address to 10.231.96.253.
- D. Change the PC1 IP address to 10.231.64.115.

32. Your colleagues just finished configuring a small test network as part of his training. The network is configured as shown in the diagram below:



When testing the configuration, you find that Host A in the diagram cannot ping Host B. Which of the following pairs of connections are required to be in the same subnet for Host A to be able to ping Host B? (Choose all that apply.)

- A. The IP address of Host A and the IP address of the Fa0/0 interface of Router A
- B. The IP address of the Fa0/0 interface of Router A and the IP address of the Fa0/0 interface of Router B
- C. The IP address of Host A and the IP address of the Fa0/0 interface of Router
- D. The IP address of Host A and the IP address of Switch A
- E. The IP address of the S 0/0 interface of Router A and the IP address of the S 0/0 interface of Router B
- F. The IP address of Host A and the IP address of Host B
- G. The IP address of Host B and the IP address of the Fa0/0 interface of Router B

33. When a packet is forwarded through a network from one host to another host, which of the following fields in the Ethernet frame will change at every hop?

- A. Source IP address
- B. Destination MAC address
- C. Source port number
- D. Destination IP address

34. You are the network administrator for your company. You have installed a new router in your network. You want to establish a remote connection from your computer to the new router so it can be configured. You are not concerned about security during the remote connection.

Which Cisco IOS command should you use to accomplish the task?

- A. ssh
- B. telnet
- C. terminal
- D. virtual

35. You are configuring a WAN connection between two offices. You cannot ping between the routers in a test. The Serial0 interface on RouterA is connected to the Serial1 interface on RouterB.

The commands you have executed are shown below. What is the problem with the configuration?

```
RouterA(config)#username RouterB password lie
RouterA(config)#interface serial0
RouterA(config-if)#encapsulation ppp
RouterA(config-if)#ppp authentication chap
```

```
RouterB(config)#username RouterA password lie
RouterB(config)#interface serial0
RouterB(config-if)#encapsulation ppp
RouterB(config-if)#ppp authentication chap
```

- A. The passwords are incorrectly configured
 - B. The usernames are incorrectly configured
 - C. The wrong interface has been configured
 - D. The encapsulation is incorrect on RouterA
36. What command would be used to verify trusted DHCP ports?
- A. show mls qos
 - B. show ip dhcp snooping
 - C. show ip trust
 - D. show ip arp trust
37. RouterA and RouterB, which connect two locations, are unable to communicate. You run the show running-configuration command on both router interfaces, RouterA and RouterB. The following is a partial output

```
routerA#show running-config
interface Serial0
description Router_A
ip address 192.10.191.2 255.255.255.0
encapsulation ppp
no ip mroute-cache
clockrate 64000

routerB#show running-config
interface Serial1
description Router_B
ip address 192.10.192.1 255.255.255.0
encapsulation ppp
no ip mroute-cache
clockrate 64000
```

Based on the information given in the output, what are two likely causes of the problem?

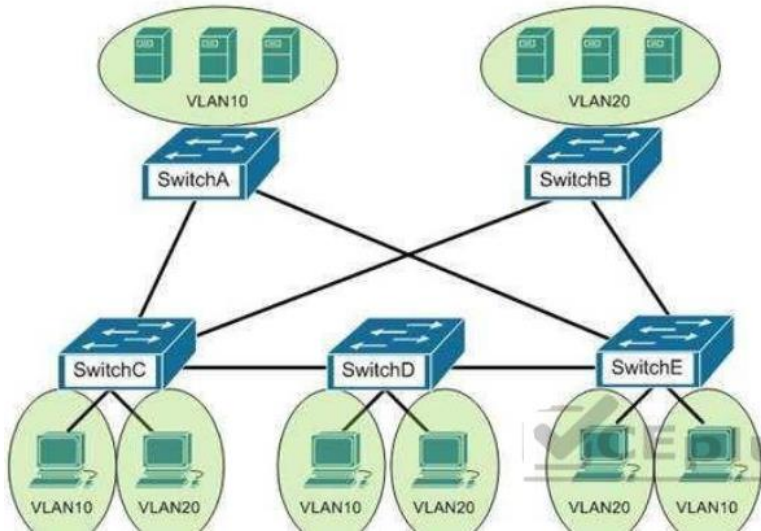
- A. The IP address defined is incorrect.
- B. Both routers cannot have an identical clock rate.
- C. The Layer 2 framing is misconfigured.
- D. At least one of the routers must have the ip mroute-cache command enabled.

38. You are discovering that there are differences between the configuration of EIGRP for IPv6 and EIGRP for IPv4. Which statement is true with regard to the difference?
- A. A router ID is required for both versions
 - B. A router ID must be configured under the routing process for EIGRP for IPv4
 - C. AS numbers are not required in EIGRP for IPv6
 - D. AS numbers are not required in EIGRP for IPv4
39. Which of the following techniques is NOT used by distance vector protocols to stop routing loops in a network?
- A. Split horizon
 - B. Spanning Tree Protocol (STP)
 - C. Holddowns
 - D. Route poisoning
40. You are a network administrator for your organization. Your organization has two Virtual LANs, named Marketing and Production. All Cisco 2950 switches in the network have both VLANs configured on them. Switches A, C, F, and G have user machines connected for both VLANs, whereas switches B, D, and E have user machines connected for the Production VLAN only. (Click the Exhibit(s) button to view the network diagram.) You receive a request to configure Fast Ethernet port 0/2 on Switch B for a user computer in the Marketing VLAN. VLAN numbers for the Marketing and Production VLANs are 15 and 20, respectively. Which Cisco 2950 switch command should you use to configure the port?
- A. SwitchB(config-if)#switchport trunk vlan 15
 - B. SwitchB(config)#switchport access vlan 15
 - C. SwitchB(config-if)#switchport access vlan 15
 - D. SwitchB(config-if)#switchport trunk vlan 15, 20
41. Which Cisco IOS command is used on a Cisco Catalyst 6500 series switch to view the spanning-tree protocol (STP) information for a virtual LAN (VLAN)?
- A. show spanning tree
 - B. show spanning-tree vlan
 - C. show spantreeCB989129A5F974833949052CFB2F2
 - D. show spantree vla

42. Which of the following is NOT a true statement regarding Virtual Private Networks (VPNs)?
- A. A VPN is a method of securing private data over public networks
 - B. IPsec is a method for providing security over VPN
 - C. Frame Relay is a Layer 3 VPN technology
 - D. IPsec provides packet-level encryption
 - E. A Cisco VPN solution provides increased security, reduced cost, and scalability
43. Which of the following is NOT a VLAN Trunking Protocol (VTP) mode of operation?
- A. client
 - B. server
 - C. virtual
 - D. transparent
44. A router is running a classful routing protocol. Which command will enable this router to select a default route when routing to an unknown subnet of a network for which it knows the major network?
- A. ip classless
 - B. no ip classless
 - C. auto-summary
 - D. no auto-summary
45. Which Cisco IOS command is used to configure encapsulation for a PPP serial link on a Cisco router?
- A. encapsulation ppp
 - B. encapsulation ip ppp
 - C. ip encapsulation ppp
 - D. encapsulation ppp-synch
46. When the copy running-config startup-config command is issued on a router, where is the configuration saved?
- A. Random access memory (RAM)
 - B. Flash
 - C. Non-volatile random access memory (NVRAM)
 - D. Read-only memory (ROM)

47. What would be the effect of configuring a loopback interface on RouterA with an address of 192.168.1.50/24?
- A. Router B would become the designated router
 - B. Router A would become the designated router
 - C. Router C would become the designated router
 - D. Router A would become the backup designated router
48. Which type of network connection requires a straight-through cable?
- A. host to host
 - B. switch to router
 - C. switch to switch
 - D. host to router's Ethernet port
49. What command would you run to determine which switch is the root bridge for a particular VLAN?
- A. show spantree vlan
 - B. show spanning tree
 - C. show spanning-tree vlan
 - D. show vlan spantree
50. Which three statements are TRUE regarding Network Address Translation (NAT)? (Choose three.)
- A. It connects different Internet Service Providers (ISPs).
 - B. It can act as an address translator between the Internet and a local network.
 - C. It conserves IP addresses.
 - D. It creates additional IP addresses for the local network.
 - E. It helps the local network connect to the Internet using unregistered IP addresses.

51. You are the switch administrator for InterConn. The network is physically wired as shown in the diagram. You are planning the configuration of STP. The majority of network traffic runs between the hosts and servers within each VLAN.



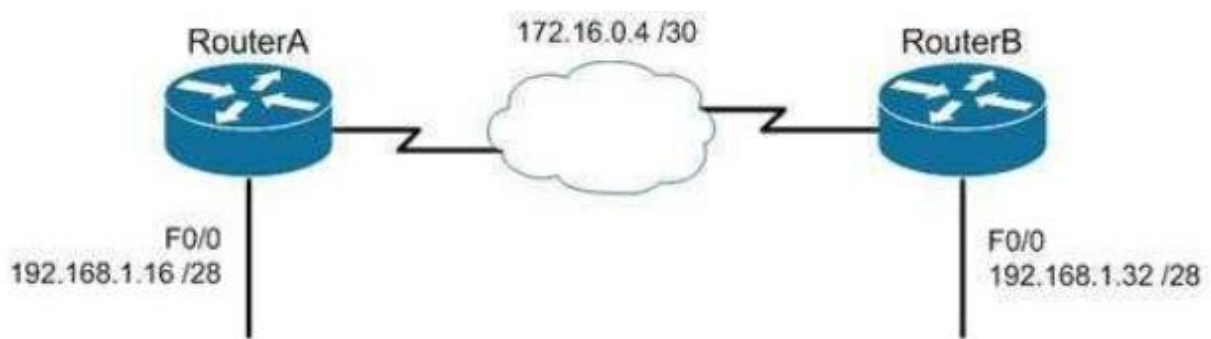
You would like to designate the root bridges for VLANS 10 and 20. Which switches should you designate as the root bridges?

- A Switch A for VLAN 10 and Switch B for VLAN 20
 - B. Switch A for VLAN 10 and Switch C for VLAN 20
 - C Switch D for VLAN 10 and Switch B for VLAN 20
 - D. Switch E for VLAN 10 and Switch A for VLAN 20
52. What is the purpose of frame tagging in Virtual LAN (VLAN) configurations?
- A. inter-VLAN routing
 - B. encryption of network packets
 - C. frame identification over trunk links
 - D. frame identification over access links
53. What is the primary benefit of the Virtual Local Area Network (VLAN) Trunking Protocol (VTP)?
- A. broadcast control
 - B. frame tagging
 - C. inter-VLAN routing
 - D. consistent VLAN configuration across switches in a domain

54. Which of the following is NOT a feature offered by Enhanced Interior Gateway Routing Protocol (EIGRP)?

- A. variable length subnet masks (VLSM)
- B. partial updates
- C. neighbor discovery mechanism
- D. multiple vendor compatibility

55. Consider the following diagram:



Which of the following routing protocols could NOT be used with this design?

- A. RIPv1
- B. RIPv2
- C. EIGRP
- D. OSPF

56. You run the following command:

```
switch# show ip interface brief
```

What information is displayed?

- A. A summary of the IP addresses and subnet mask on the interface
- B. A summary of the IP addresses on the interface and the interface's status
- C. The IP packet statistics for the interfaces
- D. The IP addresses for the interface and the routing protocol advertising the network

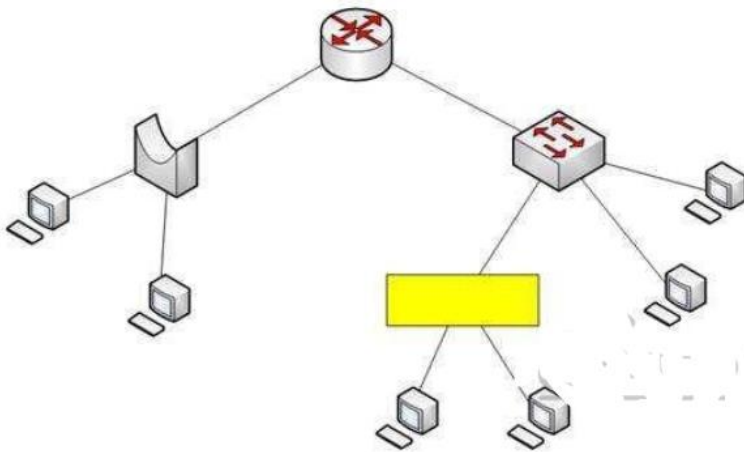
57. Which Cisco Internetwork Operating System (IOS) command would be used to set the privileged mode password to "cisco"?
- A. router(config)# enable password cisco
 - B. router# enable secret cisco
 - C. router(config)# line password cisco
 - D. router(config-router)# enable password cisco
58. Which of the following characteristics are NOT shared by RIPv1 and RIPv2?
- A. They share an administrative distance value
 - B. They use the same metric
 - C. They both send the subnet mask in routing updates
 - D. They have the same maximum hop count
59. Enhanced Interior Gateway Routing Protocol (EIGRP) uses which algorithm to select the best path to the destination?
- A. Diffusing Update Algorithm (DUAL)
 - B. Dijkstra algorithm
 - C. Bellman-Ford algorithm
 - D. Shortest Path First (SPF) algorithm
60. Which Enhanced Interior Gateway Routing Protocol (EIGRP) packet type is used for neighbor discovery?
- A. Hello
 - B. Update
 - C. Queries
 - D. Replies
61. Which type of address never changes on a device and is similar to a home address?
- A. MAC address
 - B. IP address
 - C. network address
 - D. logical address

62. On which of the following networks will OSPF elect a designated router (DR)?
- A. Broadcast
 - B. Reflection
 - C. Point-to-point
 - D. Point-to-multipoint
63. Which Cisco IOS command can be issued on a router to test the connectivity of one interface from another interface on the same router?
- A. ping (with no address specified)
 - B. ping (with an address specified)
 - C. tracert
 - D. traceroute
64. What port types are available for Rapid Spanning Tree Protocol (RSTP) but NOT available in Spanning Tree Protocol (STP)? (Choose two.)
- A. Root port
 - B. Backup port
 - C. Alternate port
 - D. Designated port
 - E. Learning port
65. Which of the following is a classful routing protocol?
- A. RIPv1
 - B. EIGRP
 - C. BGPv4
 - D. RIPv2
66. You have the following configuration on your router:
- ```
ip dhcp pool POOLNAME network
10.1.0.0 255.255.255.0
default-router 10.1.0.254 dnsserver 10.1.0.200
```
- What command would you run to prevent the last available IP address in the scope from being allocated to a host via DHCP?

- A. ip dhcp restrict 10.1.0.254
- B. ip dhcp excluded-address 10.1.0.253 85CB989129A5F974833949052CFB2F2
- C. ip dhcp excluded-address 10.1.0.254
- D. ip dhcp 10.1.0.253 excluded-address

67. Assume that all ports on Layer 2 devices are in the same Virtual LAN (VLAN). View the given network topology. (Click the Exhibit(s) button.)

Which network device should be placed at the highlighted box to produce a total of two broadcast domains and seven collision domains in the network?



- A. Hub
  - B. Bridge
  - C. Switch
  - D. Router
68. Which Cisco Internetwork Operating System (IOS) command is used to assign a router a name for identification?
- A. description
  - B. banner motd
  - C. hostname
  - D. banner exec
69. You instructed your assistant to add a new router to the network. The routers in your network run OSPF. The existing router, OldRouter, is configured as follows:

```
router ospf 1 network 192.168.5.0
0.0.0.255 area 0 network 192.168.10.0
0.0.0.255 area 0
```

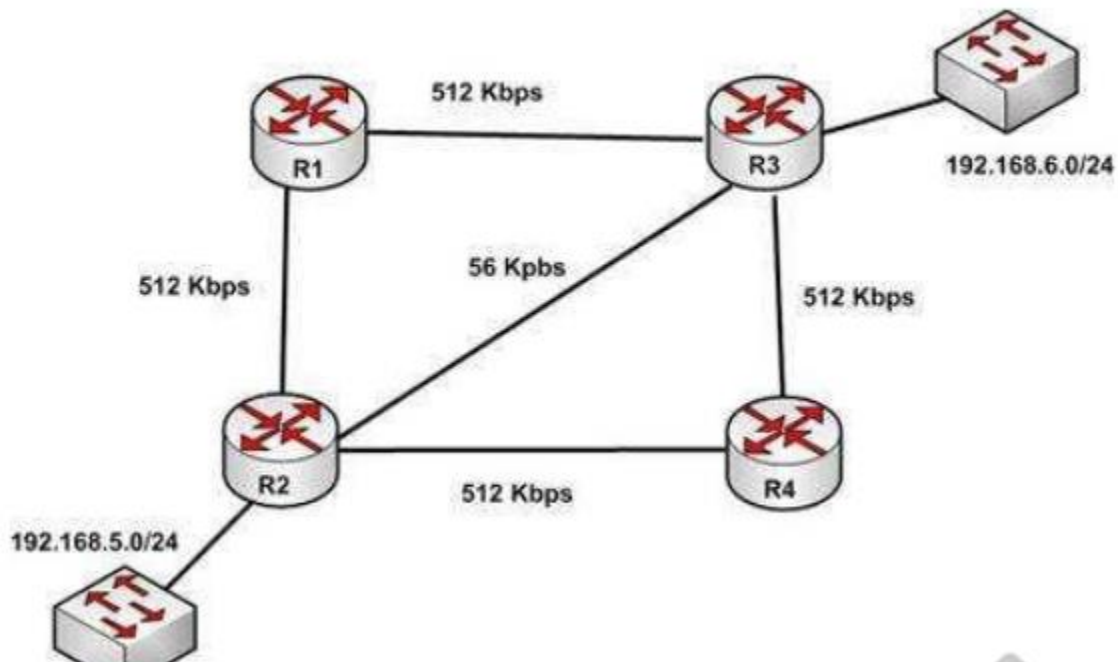
The OldRouter interface that connects to NewRouter is 192.168.5.3/24. Your assistant shows you the configuration that will be implemented:

```
newrouter(config)# router ospf 1 newrouter(config-router)#
network 192.168.5.0 255.255.255.0 area 0
```

What is wrong with this configuration?

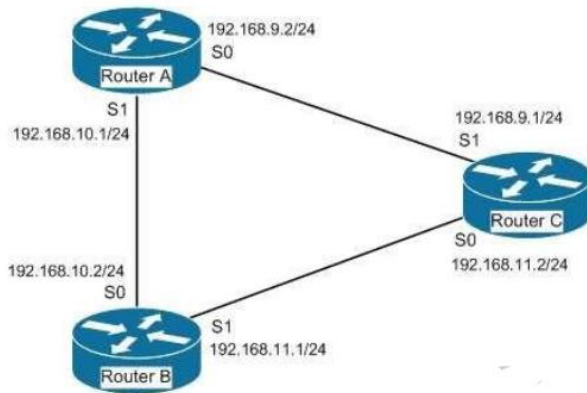
- A. The area ID is incorrectly configured.
- B. The wildcard mask is incorrectly configured.
- C. The network statement is incorrectly configured.
- D. The process ID number is incorrectly configured

70. With respect to the network shown below, which of the following statements are true when R2 sends a packet to the 192.168.6.0/24 network? (Choose all that apply.)



- A. If RIPv1 is in use, the path taken will be R2 - R4 - R3
- B. If both RIPv2 and EIGRP are in use, the EIGRP route will be placed in the routing table
- C. If EIGRP is in use, the only path taken will be R2 - R4 - R3
- D. If RIPv2 is in use, the path taken will be R2 - R3

71. You have three EIGRP routers that are connected as shown in the diagram below



Router A and Router C do not seem to be exchanging information. You execute commands on all three routers, and receive as output the information shown below:

```

Router A# show ip eigrp neighbors
Address Interface holdtime uptime Q Seq SRTT RTO
192.168.10.2 S1 13 1:20:10 100 458 0 30

```

```

routerA# show run
<output omitted>
router eigrp 56
network 192.168.10.0
network 192.168.9.0
no auto-summary

```

```

routerC# show run
<output omitted>
router eigrp 56
network 192.168.11.0
no auto-summary

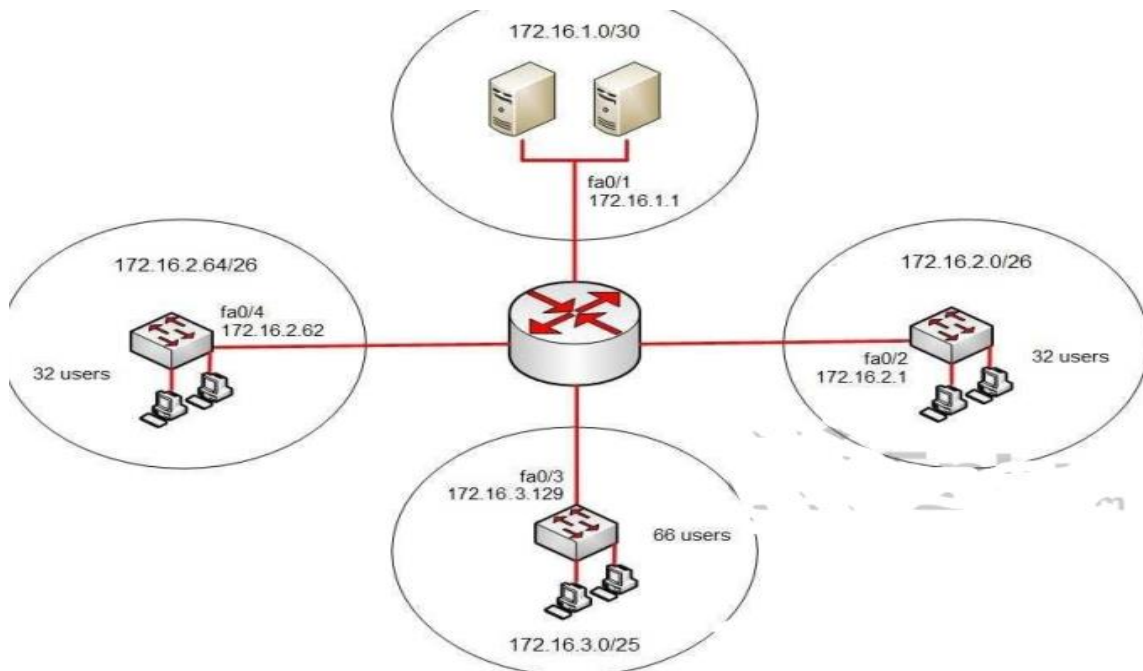
```

What needs to be done to make Routers A and C start exchanging information?

- A. Execute the auto-summary command on Router A
- B. Execute the network 192.168.9.0 command under EIGRP 56 on Router C
- C. Correct the IP address on the S1 interface of Router C
- D. Recreate the EIGRP configuration on Router C as EIGRP 55

72. What are reasons a network administrator might want to create subnets?
- A. simplifies network design
  - B. easier to implement security policies
  - C. reduction in number of routers needed
  - D. reduction in number of switches needed
73. If a routing table contains multiple routes for the same destination, which were inserted by the following methods, which route will the router use to reach the destination network?
- A. The route inserted by RIP
  - B. The route inserted by OSPF
  - C. The route inserted by BGP
  - D. The route configured as a static route
74. Which of the following is NOT a characteristic of Open Shortest Path First (OSPF)?
- A. Is a Cisco-proprietary routing protocol
  - B. Has a default administrative distance of 110
  - C. Supports authentication
  - D. Uses cost as the default metric
75. Refer to the following configuration on a Cisco router to allow Telnet access to remote users:
- ```
Router(config)#line vty 0 2
Router(config-line)#login
Router(config-line)#password guest
```
- How many users can Telnet into this router at the same time?
- A. 0
 - B. 1
 - C. 2
 - D. 3
 - E. 5

76. Your company's network must make the most efficient use of the IP address space. In the following diagram, the circles define separate network segments. The requirements of each network segment are given in the diagram.



Users complain of connectivity issues. You need to discover the problems with the network configuration. What are the three problems with the network diagram?

- A. The 172.16.1.0/30 segment requires more user address space.
 - B. The 172.16.2.0/26 segment requires more user address space.
 - C. The 172.16.3.0/25 segment requires more user address space.
 - D. The 172.16.2.64/26 segment requires more user address space
77. Which type of Dynamic Host Configuration Protocol (DHCP) transmission is used by a host to forward a DHCPDISCOVER packet to locate a DHCP server on the network?
- A. unicast
 - B. broadcast
 - C. multicast
 - D. anycast

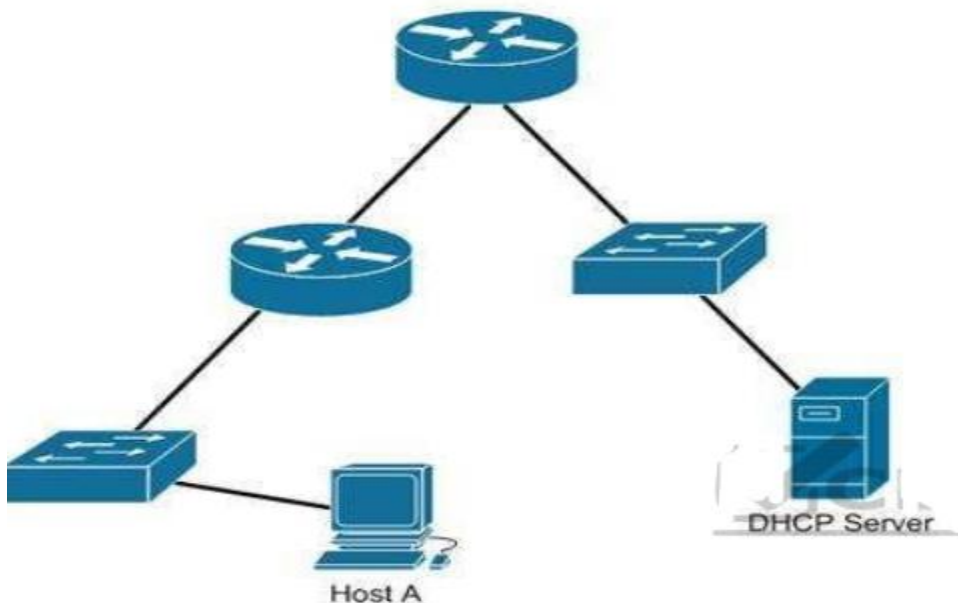
78. Which Cisco command will display the version and configuration data for Secure Shell (SSH)?
- A. show ssh
 - B. show ip ssh
 - C. debug ssh
 - D. debug ip ssh
79. Your assistant has been assigned the task of configuring one end of a WAN link between two offices. The link is a serial connection and the router on the other end is a non-Cisco router. The router in the other office has an IP address of 192.168.8.6/24. The connection will not come up, so you ask your assistant to show you the commands he configured on the Cisco router. The commands he executed are shown below.
- ```
Ciscorouter(config)# interface serial0/0
Ciscorouter(config-if)# ip address 192.168.8.5 255.255.255.0
Ciscorouter(config-if)# no shut
```
- What command(s) should he run to correct the configuration?
- A. Ciscorouter(config-if)# no ip address 192.168.8.5Ciscorouter(config-if)# ip address 192.168.8.10
  - B. Ciscorouter(config-if)# encapsulation ppp
  - C. Ciscorouter(config-if)# encapsulation ansi
  - D. Ciscorouter(config-if)# authentication chap
80. Which connection provides a secure CLI session with encryption to a Cisco switch?
- A. a console connection
  - B. an AUX connection
  - C. a Telnet connection
  - D. an SSH connection
81. A network technician is attempting to configure an interface by entering the following command: SanJose(config)# ip address 192.168.2.1 255.255.255.0. The command is rejected by the device. What is the reason for this?

- A. The command is being entered from the wrong mode of operation.
- B. The command syntax is wrong.
- C. The subnet mask information is incorrect.
- D. The interface is shutdown and must be enabled before the switch will accept the IP address.

82. On which switch interface would an administrator configure an IP address so that the switch can be managed remotely?

- A. FastEthernet0/1
- B. VLAN 1
- C. vty 0
- D. console 0

83. Host A is configured for DHCP, but it is not receiving an IP address when it powers up. What is the most likely cause?



- A. The DHCP server is on the wrong subnet.
- B. Routers do not forward broadcast traffic.
- C. The DHCP server is misconfigured.
- D. Port security is enabled on the switch.

84. What protocol is responsible for controlling the size of segments and the rate at which segments are exchanged between a web client and a web server?
- A. TCP
  - B. IP
  - C. HTTP
  - D. Ethernet
85. A technician can ping the IP address of the web server of a remote company but cannot successfully ping the URL address of the same web server. Which software utility can the technician use to diagnose the problem?
- A. tracert
  - B. ipconfig
  - C. netstat
  - D. nslookup
86. Which command is used on a Catalyst 2950 series switch to enable basic port security on the interface?
- A. set port-security
  - B. switchport port-security
  - C. set port-security enable
  - D. switchport port-security enable
87. Which Cisco Internetwork Operating System (IOS) command is used to encrypt passwords on Cisco routers?
- A. password secure
  - B. service encryption-password
  - C. service password-encryption
  - D. enable password
88. A network technician suspects that a particular network connection between two Cisco switches is having a duplex mismatch. Which command would the technician use to see the Layer 1 and Layer 2 details of a switch port?
- A. show mac-address-table

- B. show ip interface brief
- C. show interfaces
- D. show running-config

89. Where are Cisco IOS debug output messages sent by default?

- A. Syslog server
- B. console line
- C. memory buffers
- D. vty lines

90. You are configuring a Cisco router.

Which command would you use to convey a message regarding the remote access security policy of your organization to a user logging into the router?

- A. hostname
- B. banner motd
- C. description
- D. boot system
- E. terminal monito

91. As part of a new initiative to tighten the security of your Cisco devices, you have configured the firewall to restrict access to the devices from the outside.

What would be other recommended ways of protecting the integrity of the device configuration files on the devices while ensuring your continued ability to manage the devices remotely? (Choose all that apply.)

- A. encrypt the configuration files
- B. use SSH to connect to the devices for management
- C. prevent the loss of administrator passwords by disabling their encryption
- D. disable the VTY ports on the devices

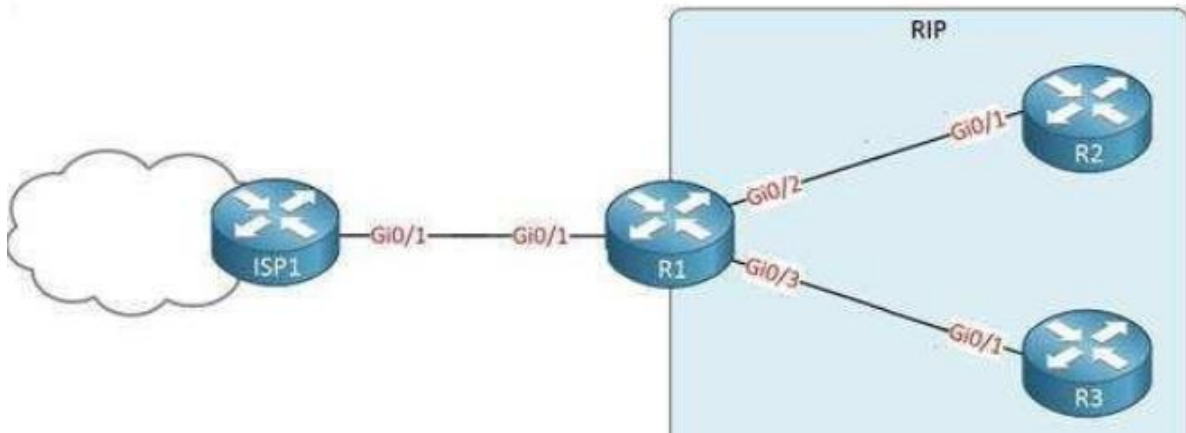
92. A user is unable to reach the web site when typing `http://www.cisco.com` in a web browser, but can reach the same site by typing `http://72.163.4.161`. What is the issue?

- A. default gateway
- B. DHCP

- C. TCP/IP protocol stack
- D. DNS

93. You are troubleshooting a problem with two routers configured in a HSRP group. You intended to configure the routers so that Router A and Router B would each track their respective Fa0/1 interfaces and decrement their priorities for several VLAN groups if the tracked interface went down. However, you find that Router A is not taking over as the active device for the HSRP group on VLAN 101 when the Fa0/1 interface on Router B fails. Which command would NOT be useful for discovering the problem?
- A. show running-configuration
  - B. show vlans
  - C. show standby brief
  - D. show standby
94. A new switch is added to the network, and several production VLANs are shut down. Which of the following is a probable cause for this scenario? (Choose two.)
- A. The new switch has a lower configuration revision number than existing switches.
  - B. The new switch has a higher configuration revision number than existing switches.
  - C. The new switch is operating in transparent mode.
  - D. The new switch is operating in server mode
95. Which two statements are TRUE of Internet Protocol (IP) addressing? (Choose two.)
- A. Public addresses are registered with the Internet Assigned Numbers Authority (IANA).
  - B. These addresses are publicly registered with the Internet Service Provider (ISP).
  - C Private addresses are allocated by the Internet Assigned Numbers Authority (IANA)
  - D. The ranges of public IP addressing are 10.0.0.0 to 10.255.255.255, 172.16.0.0 to 172.31.255.255, and 192.168.0.0 to 192.168.255.255.
96. You just finished configuring VLAN Trunking Protocol (VTP) in a network containing five switches. One of the switches is not receiving VLAN information from the switch that is acting as the server. Which of the following could NOT be a reason why the switch is not receiving the information?

- A. The VTP domain name on the switch may be misspelled
  - B. The VTP password may be misspelled on the switch
  - C. The configuration revision number may be out of sync
  - D. The VTP version used on the switch may be different
97. Which of the following commands will let you see the current operating mode for a switch port?
- A. show interface fastethernet0/1 detail
  - B. show controllers fastethernet0/1
  - C. show interface fastethernet0/1 status
  - D. show interfaces fastethernet0/1 switchport
98. Your network is configured as shown in the following exhibit. When you trace traffic sourced from R3 destined for a LAN network off of R2 (not shown in the diagram), you see the traffic is being forwarded from R1 to ISP1 rather than to R2.



- Which of the following issues could NOT be causing this behavior?
- A. The network command has not been executed on the interface leading to the LAN off R2
  - B. The passive interface command has been issued on the Gi0/4 interface of R1
  - C. A default route exists on R1 that leads to ISP1
  - D. RIPv2 has not been enabled on R2
99. What IOS command produced the following output?

```

<output omitted>
Vlan Mac Address Type Ports

1 0040.63d8.ba0a DYNAMIC Fa0/1
1 0004.274c.9ca0 DYNAMIC Fa0/3
1 0040.63d8.bab8 DYNAMIC Fa0/10
1 000f.1fd3.d85a DYNAMIC Fa0/7
<output omitted>

```

- A. show interface mac
  - B. show mac
  - C. show mac-address-table
  - D. show ip interface
100. File Transfer Protocol (FTP) and Simple Mail Transfer Protocol (SMTP) work at which layer in the Open Systems Interconnection (OSI) model?
- A. the Session layer
  - B. the Presentation layer
  - C. the Application layer
  - D. the Network layer
101. Which Cisco IOS command will enable a switch to copy the configuration from NVRAM to its RAM?
- A. copy tftp flash
  - B. copy running-config flash
  - C. copy startup-config flash
  - D. copy startup-config running-config
  - E. copy running-config startup config