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1 Which statement correctly describes a function of a Layer 2 switch?

- ○ It routes packets between different LAN segments.
- ● It uses the destination MAC address to selectively forward a frame.
- ○ It performs switching and filtering based on the destination network layer address.
- ○ It drops a frame whose destination MAC address is not in the MAC address table.

2

```
s3# show vtp status
VTP Version                    : 2
Configuration Revision         : 5
Maximum VLANs supported locally : 128
Number of existing VLANs       : 6
VTP Operating Mode             : Client
VTP Domain Name                : Labs
VTP Pruning Mode               : Disabled
VTP V2 Mode                    : Disabled
VTP Traps Generation           : Disabled
MD5 digest                     : 0x2E 0xE3 0xCA 0xFE 0xA6 0x57 0xFB 0xCB
Configuration last modified by 0.0.0.0 at 3-8-93 04:31:20
Local updater ID is 0.0.0.0 (no valid interface found)
s3#
```

Refer to the exhibit. The network administrator is planning five additional VLANs to be shared throughout the VTP domain on S3.

What action should the administrator take before creating the additional VLANs?

◉ Create the VLANs on a switch in VTP server mode and allow them to propogate to the other switches in the domain.

◯ Modify the configuration revision to 10 to support the additional VLANs.

◯ Enable the VTP pruning mode in order to create the VLANs on S3.

◯ Enable the VTP v2 mode.

3 Which three actions are performed during the boot sequence of a Cisco switch? (Choose three.)

☐ The boot loader uses the self-contained switch operating system to boot the switch.

☐ The boot loader retrieves diagnostics routines via TFTP.

☐ The boot loader performs POST.

☐ The boot loader is loaded from RAM.

☐ The boot loader initializes the flash file system that is used to boot the system.

☐ The boot loader loads the default operating system if the flash-based operating system is corrupt or missing.

4

```
Sw1(config)# interface fastethernet0/5
Sw1(config-if)# switchport mode access
Sw1(config-if)# switchport port-security
Sw1(config-if)# switchport port-security mac-address 00a8.d2e4.ba27
Sw1(config-if)# switchport port-security violation protect
```

Refer to the exhibit. What happens when a frame from a source MAC address different from 00a8.d2e4.ba27 reaches switch port 0/5?

◯ The frame is dropped.

◉ The port is shut down.

◯ An error message is displayed.

◯ FastEthernet port 0/5 will show an err-disabled message.

5
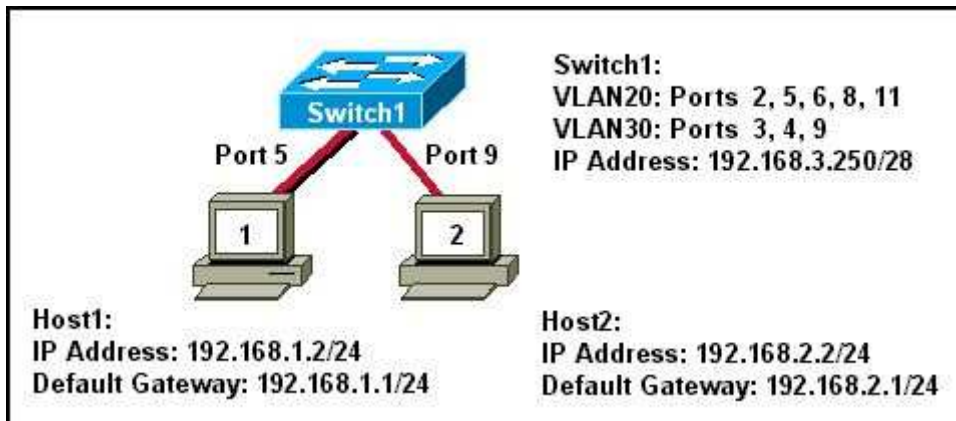
Refer to the exhibit. What three statements describe why Host1 and Host2 are unable to communicate? (Choose three.)

☑ The switch ports are on different VLANs.

☐ The switch IP address is on the wrong subnet.

☑ The hosts are configured on different logical networks.

☑ A router is required to forward traffic between Host1 and Host2.

☐ The VLAN port assignments must be contiguous for each VLAN.

☐ The host default gateway addresses must be on the same logical network.

6

Refer to the exhibit. The network administrator needs to remove the east-hosts VLAN and use the switch port from that VLAN in one of the existing VLANs. Which two sets of commands should be used when completely removing VLAN 2 from S1-Central while leaving the switch and all its interfaces operational? (Choose two.)

☐ S1-Central> **enable**
  S1-Central# **reload**

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☐ S1-Central> **enable**
S1-Central# **erase flash:**
☑ S1-Central> **enable**
S1-Central# **delete flash:vlan.dat**
☐ S1-Central> **enable**
S1-Central# **configure terminal**
S1-Central(config)# **no vlan 2**
☑ S1-Central> **enable**
S1-Central# **configure terminal**
S1-Central(config-if)# **interface fastethernet 0/1**
S1-Central(config-if)# **switchport access vlan 3**

7 How are data frames identified and sent to the correct VLAN when exiting an Ethernet trunk?

○ Frames are forwarded to the correct VLAN based on the VLAN tag.

○ Frames are always forwarded to the native VLAN when exiting a trunk.

○ Frames are forwarded to the correct VLAN based on the source IP address.

◉ Frames are forwarded to the correct VLAN based on information in the MAC address table.

**8** Which statement regarding the **service password-encryption** command is true?

○ The **service password-encryption** command is entered at the privileged EXEC mode prompt.

○ The **service password-encryption** command encrypts only passwords for the console and VTY ports.

◉ The **service password-encryption** command encrypts all previously unencrypted passwords in the running configuration.

○ To see the passwords encrypted by the **service password-encryption** command, enter the **no service password-encryption** command.

9 Which combination is required to establish a connection to initially configure the Linksys WRT300N wireless access device?

○ a computer with a console connection to the WRT300N

◉ a computer with a wireless connection to the WRT300N

○ a computer with an AUX port connection to the WRT300N

○ a computer configured in the same IP subnet as the WRT300N and a direct cable connection to it
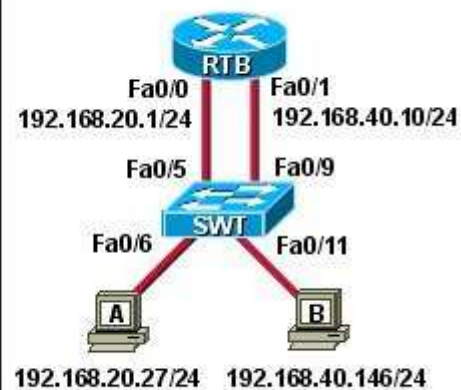
10

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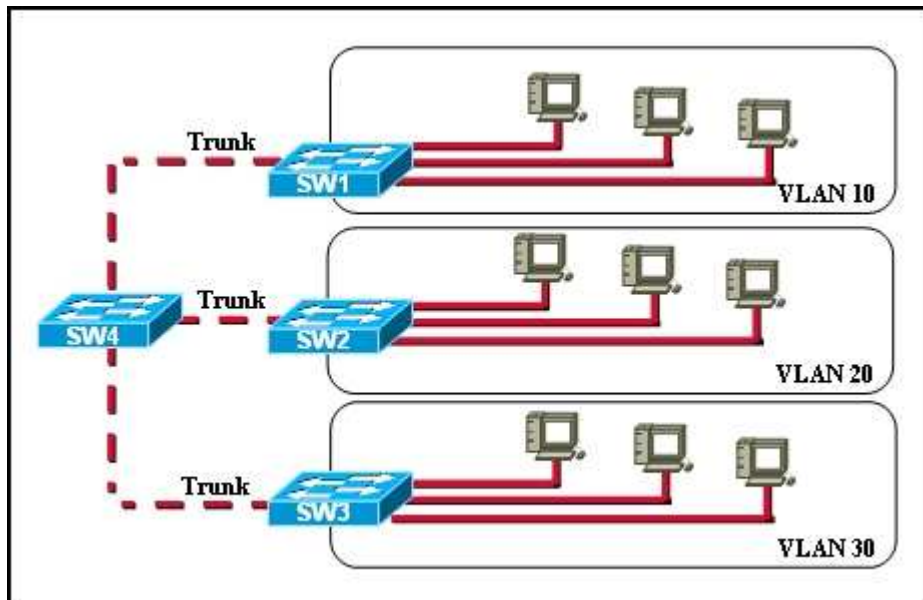
Refer to the exhibit. The switches in the exhibit have VTP pruning enabled. Which VLAN(s) will be allowed on the trunk to SW2 by S

◯ VLAN 20 only

◉ VLAN 10 and VLAN 30

◯ VLAN 10, VLAN 20, and VLAN 30

◯ VLAN 1, VLAN 20 and VLANs 1002 through 1005

11

Refer to the exhibit. RTB is configured for traditional inter-VLAN routing. RTB can ping computer A but cannot ping computer B. What is a possible cause of this failure?

◉ Port Fa0/11 is in the wrong VLAN.

◯ RTB does not have an active routing protocol.

◯ The IP address of computer B is in the wrong logical network.

○ Router interface Fa0/1 has the wrong trunk encapsulation type configured.

12
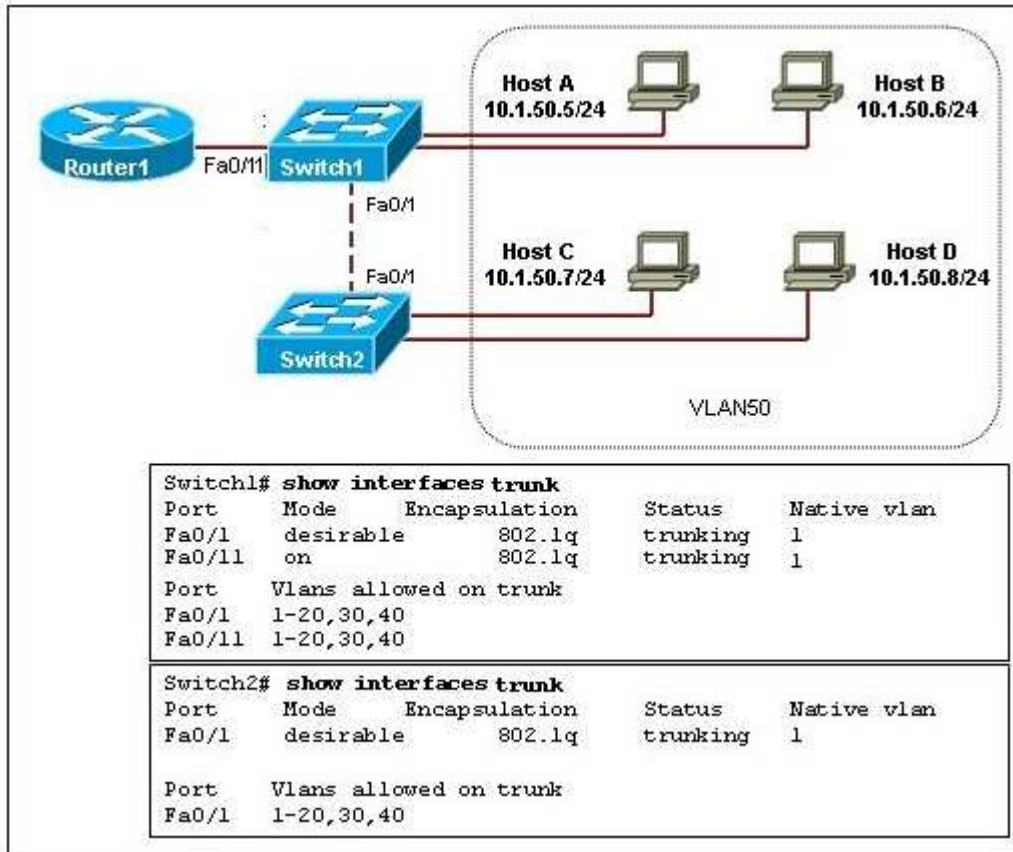
Refer to the exhibit. The network administrator has just added VLAN 50 to Switch1 and Switch2. Hosts A, B, C, and D are correctly configured with IP addresses in the subnet range for VLAN 50. Host A can communicate with host B, but cannot communicate with host C or host D. What is the cause of this problem?

○ There is a native VLAN mismatch.

◉ The Fa0/11 interface of Switch1 is not configured as a trunk.

○ The link between Switch1 and Switch2 is up but not trunked.

○ VLAN 50 is not allowed on the trunk link between Switch1 and Switch2.

13

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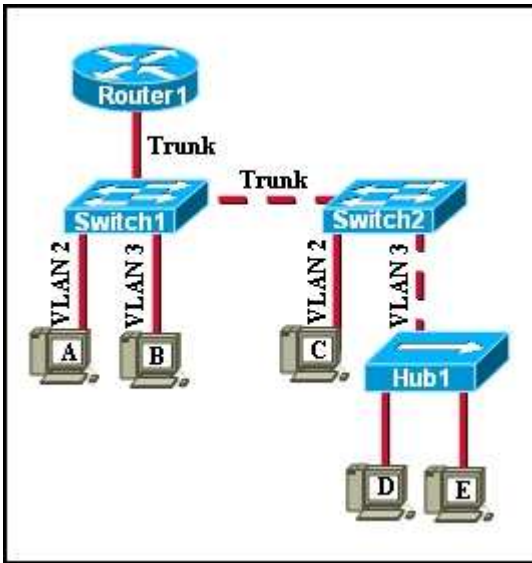
Refer to the exhibit. Computer D sends a broadcast message. Which devices will process the broadcast message?

- ⦿ computer E
- ☐ computer D and computer E
- ☐ computer D, computer E, and Router1
- ☐ computer B and computer E
- ☐ computer B, computer E, and Router1
- ☐ computer C, computer D, and computer E
- ☐ computer C, computer D, computer E, and Router1
- ☐ computer A, computer B, computer C, computer D, computer E, and Router1
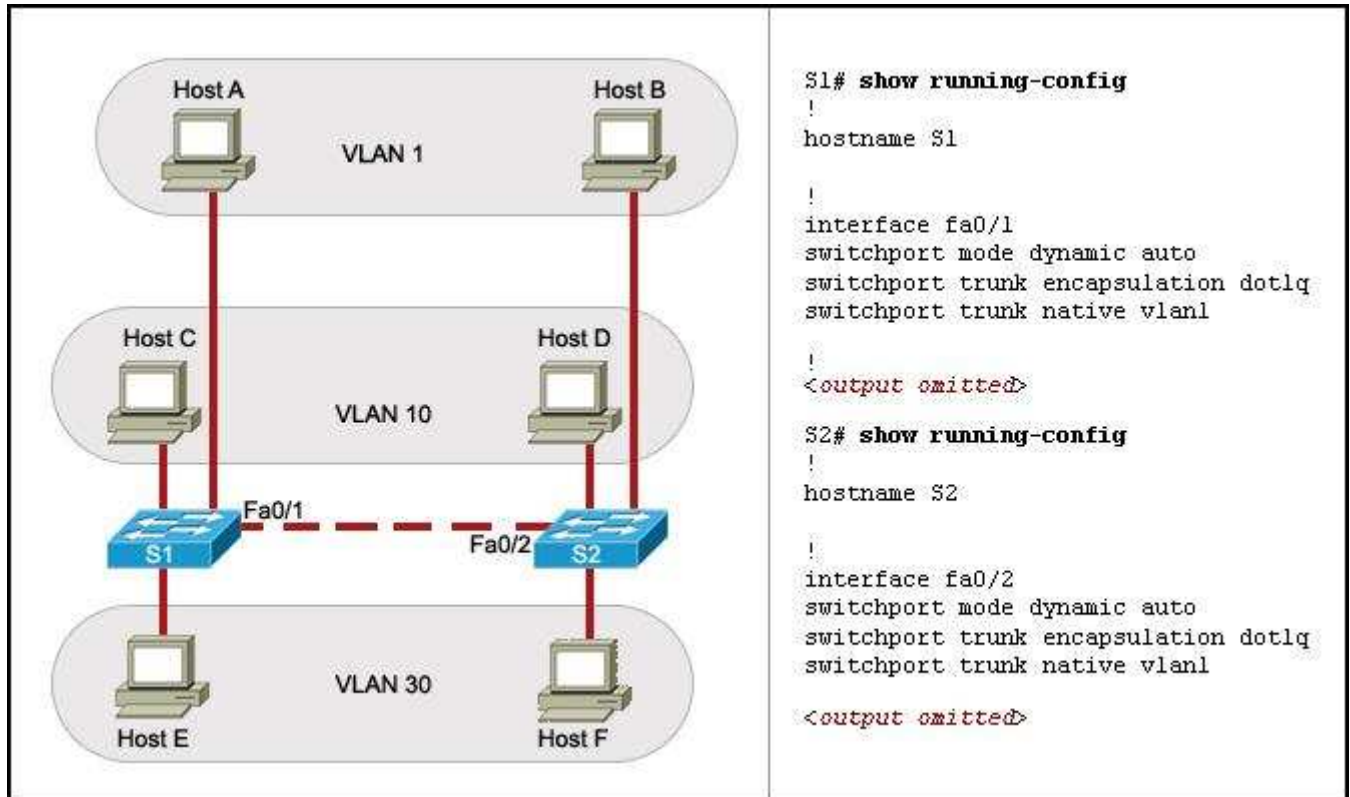
14
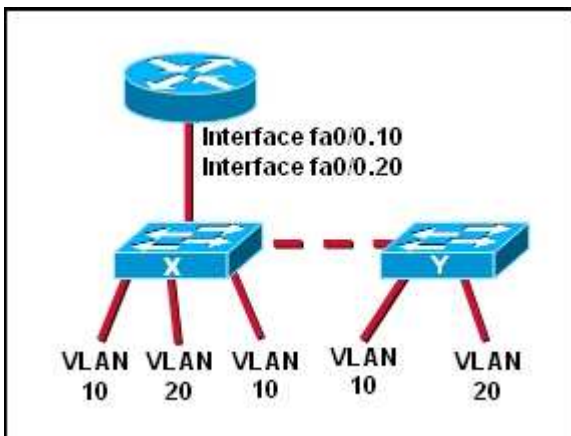
Refer to the exhibit. What will allow a host that is connected to switch X in VLAN 10 to communicate with a host that is connected to switch Y in VLAN 10?

- ☐ QoS
- ☐ routing

- ⦿ trunking
- ⬚ VPN
- ⬚ VoIP
- ⬚ subinterfaces

15


```
S1# show running-config
!
hostname S1

!
interface fa0/1
switchport mode dynamic auto
switchport trunk encapsulation dotlq
switchport trunk native vlan1

!
<output omitted>

S2# show running-config
!
hostname S2

!
interface fa0/2
switchport mode dynamic auto
switchport trunk encapsulation dotlq
switchport trunk native vlan1

<output omitted>
```

Refer to the exhibit. The network administrator configures both switches as displayed. However, host C is unable to ping host D and host E is unable to ping host F. What action should the administrator take to enable this communication?

- ⬚ Include a router in the topology.
- ⬚ Associate hosts A and B with VLAN 10 instead of VLAN 1.
- ⬚ Remove the native VLAN from the trunk.
- ⬚ Configure one trunk port in the dynamic desirable mode.
- ⬚ Add the **switchport nonegotiate** command to the configuration of S2.

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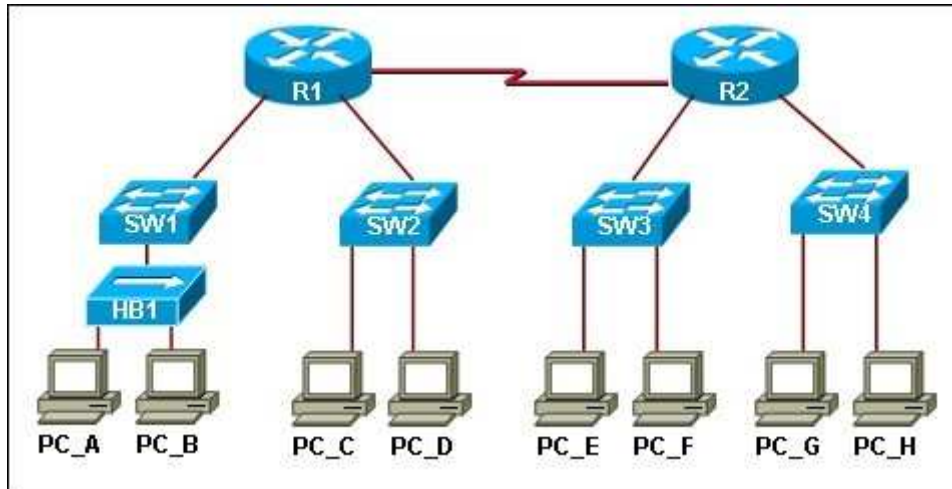| 1. Assessment Selection | 2. Assessment Settings | 3. Take Assessment |

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16

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Refer to the exhibit. Hosts PC_A and PC_B send traffic simultaneously, and the frames from the transmitting stations collide. What is the last device to receive the collision?

☐ hub HB1

☐ switch SW1

☐ router R1

☐ switch SW2

☐ router R2

☐ switch SW4

17 Which two statements about a service set identifier (SSID) are true? (Choose two.)

☐ provides strong wireless security

☐ responsible for determining the signal strength

☐ tells a wireless device to which WLAN it belongs

☐ used to encrypt data sent across the wireless network

☐ all wireless devices on the same WLAN must have the same SSID
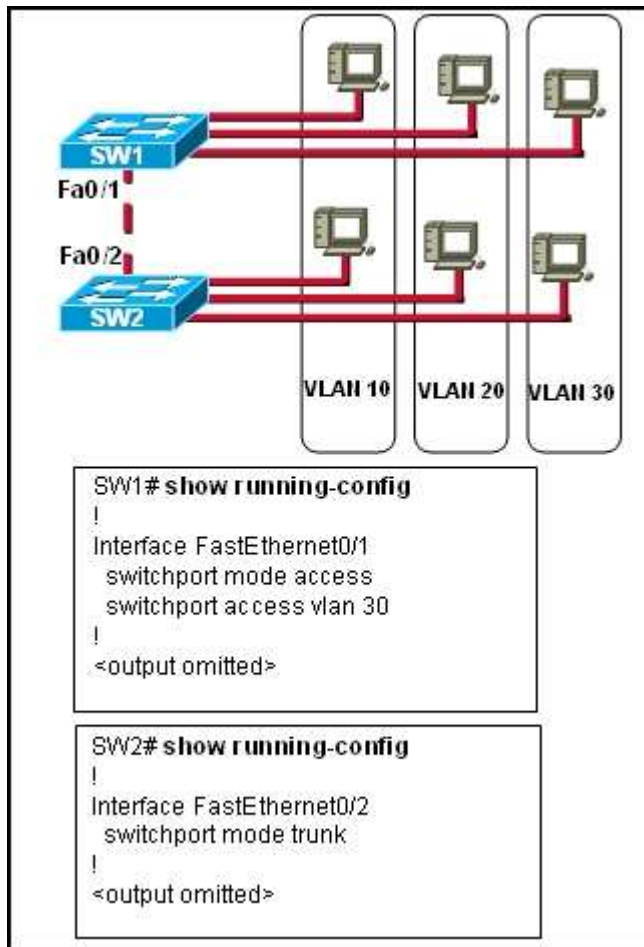
18

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Refer to the graphic. In the Wireless menu option of a Linksys integrated router, what does the Network Mode option Mixed mean?

The router supports encryption and authentication.

The router supports both wired and wireless connections.

The router supports 802.11b, 802.11g, and 802.11n devices.

The router supports connectivity through infrared and radio frequencies.

19

11

```
SW1# show running-config
!
Interface FastEthernet0/1
  switchport mode access
  switchport access vlan 30
!
<output omitted>
```

```
SW2# show running-config
!
Interface FastEthernet0/2
  switchport mode trunk
!
<output omitted>
```

Refer to the exhibit. Hosts that are connected to switch SW1 are not able to communicate with hosts in the same VLAN that are connected to switch SW2. What should be done to fix the problem?

☐ Introduce a Layer 3 device in the topology.

☐ Configure both switches in VTP transparent mode to allow them to share VLAN information.

☐ Reconfigure the fa0/1 interface on switch SW1 with a static trunk configuration.

☐ Apply IP addresses that are in the same subnet to FastEthernet 0/1 on SW1 and FastEthernet 0/2 on SW2.

20

```
SW1# show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID  Priority     4097
           Address      000d.bdc3.37c0
           Cost         38
           Port         26 (FastEthernet0/2)
           Hello Time   2 sec  Max Age 20 sec  Forward Delay 15 sec
<output omitted>
```

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Refer to the exhibit. SW1 is a 2960 switch with default values assigned. Which two statements are true about what the cost value of 38 represents for SW1? (Choose two.)

☐ SW1 connects via two FastEthernet links to reach the root switch.

☐ The cost represents the numeric value for the fastest path from SW1 to the root switch.

☐ A cost of 38 is the value that is being advertised out port 26 on the upstream switch, which is closer to the root switch.

☐ SW1 adds the cost of a FastEthernet link to 38 to determine the total cost that is required to reach the root switch.

☐ The root switch is advertising a cost of 38, which is lower than any other switch that participates in the VLAN0001 spanning-tree domain.

☐ SW1 connects via a FastEthernet link to an upstream switch that in turn is directly connected to the root switch via a Gigabit Ethernet link.

21
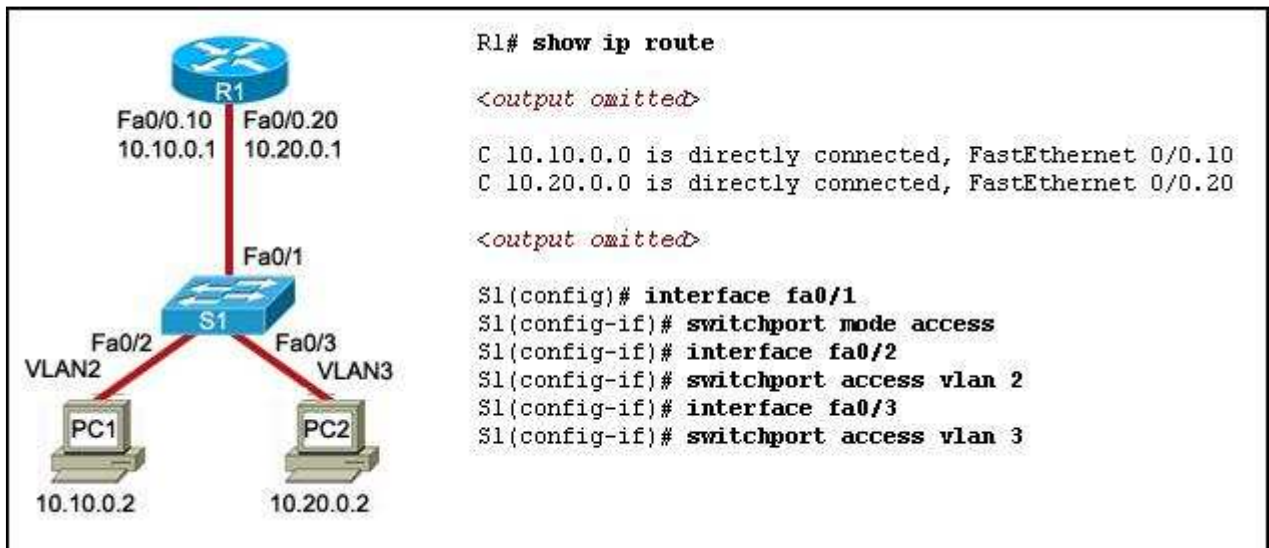
Refer to the exhibit. A network administrator has segmented the network into two VLANs and configured R1 and S1 as displayed. However, PC1 is unable to access PC2. What is the likely problem?

☐ No routing protocol is configured on R1.

☐ The Fa0/1 port of S1 is not a trunk port.

☐ The default gateway address is not set on S1.

☐ Only one physical link between S1 and R1 is configured for inter-VLAN routing.

22 What VLANs are allowed across a trunk when the range of allowed VLANs is set to the default value?

☐ only the management VLAN

☐ all VLANs except the extended range VLANs

☐ all VLANs except 1 and 1002-1005

☐ all VLANs

23 What is the purpose of the switch command **switchport access vlan 99**?

☐ to enable port security

☐ to make the port operational

☐ to assign the port to a particular VLAN

☐ to designate the VLAN that does not get tagged
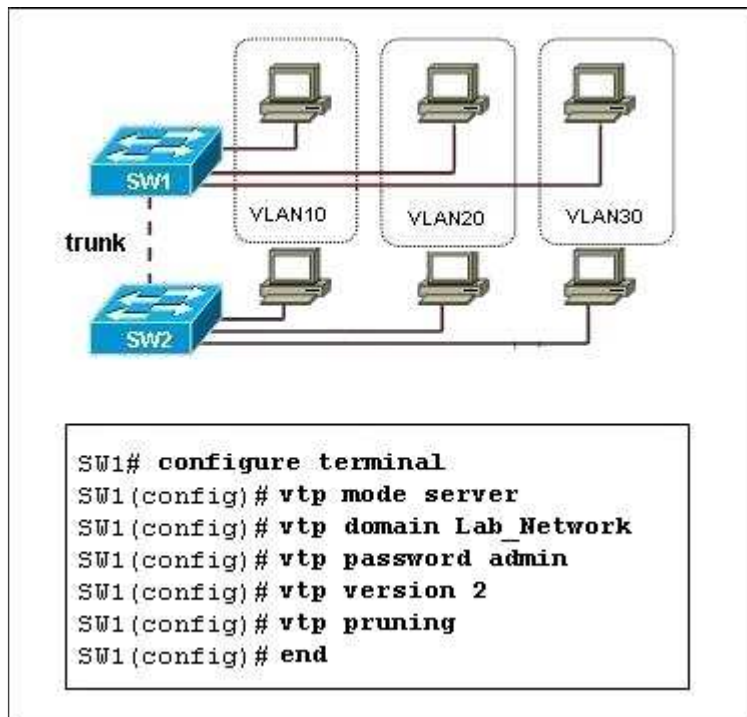
☐ to assign the port to the native VLAN (VLAN 99)

24

```
Switch1(config)# ip ssh version 2
Switch1(config)# ip domain-name cisco.com
Switch1(config)# crypto key zeroize rsa
Switch1(config)# line vty 0-15
Switch1(config-line)# transport input all
```

Refer to the exhibit. The network administrator wants to allow both SSH and Telnet connections to Switch1. However, the SSH connections fail. What is the most likely cause of this problem?

☐ The RSA key has been removed.

☐ SSH has been configured on the wrong line.

☐ The **transport input** command is applied incorrectly.

☐ The domain name has been configured in the wrong configuration mode.

25


```
SW1# configure terminal
SW1(config)# vtp mode server
SW1(config)# vtp domain Lab_Network
SW1(config)# vtp password admin
SW1(config)# vtp version 2
SW1(config)# vtp pruning
SW1(config)# end
```

Refer to the exhibit. Switch SW2 has been newly purchased and added to the network. What configuration should be #

applied to SW2 so that it participates in the same VTP domain as switch SW1, receives VLAN information from SW1, and synchronizes VLAN information?

- ☐ Disable VTP pruning on SW2.

- ☐ Configure SW2 in VTP transparent mode.

- ☐ Configure SW2 with the VTP domain password.

- ☐ Configure SW2 as a VTP server with a higher revision number.

26 Which two statements describe Spanning Tree Protocol? (Choose two.)

- ☐ It is only used at Layer 2.

- ☐ It is configured on routers.

- ☐ It eliminates Layer 2 loops in network topologies.

- ☐ It limits the number of valid MAC addresses allowed on a port.

- ☐ It allows VLAN information to propagate to other switches in the network.

27
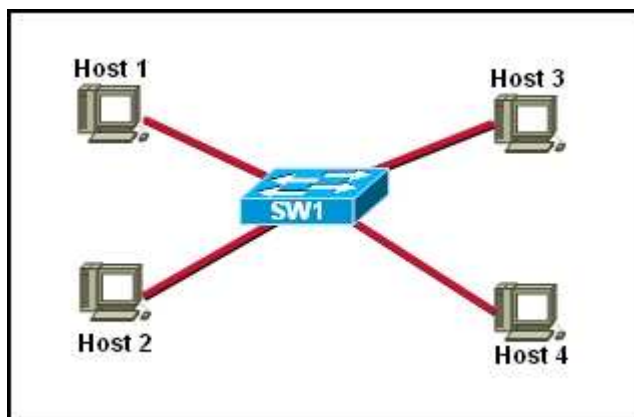
Refer to the exhibit. SW1 has recently been installed to replace a hub. Hosts 1 and 4 both transmit data at the same time. How will this event be handled by the network devices? (Choose two.)

- ☐ When a collision occurs, a backoff algorithm is invoked.

- ☐ Because hosts 1 and 4 connect to a switch, no collision will occur.

- ☐ Based on information that is found in the switch MAC address table, the switch will forward the data to the appropriate ports.

- ☐ Hosts 2 and 3 are assigned shorter backoff values to provide them priority to access the media.

- ☐ To prevent future collisions, the switch will block the ports that are connected to host 2, host 3, and host 4 for a set time period
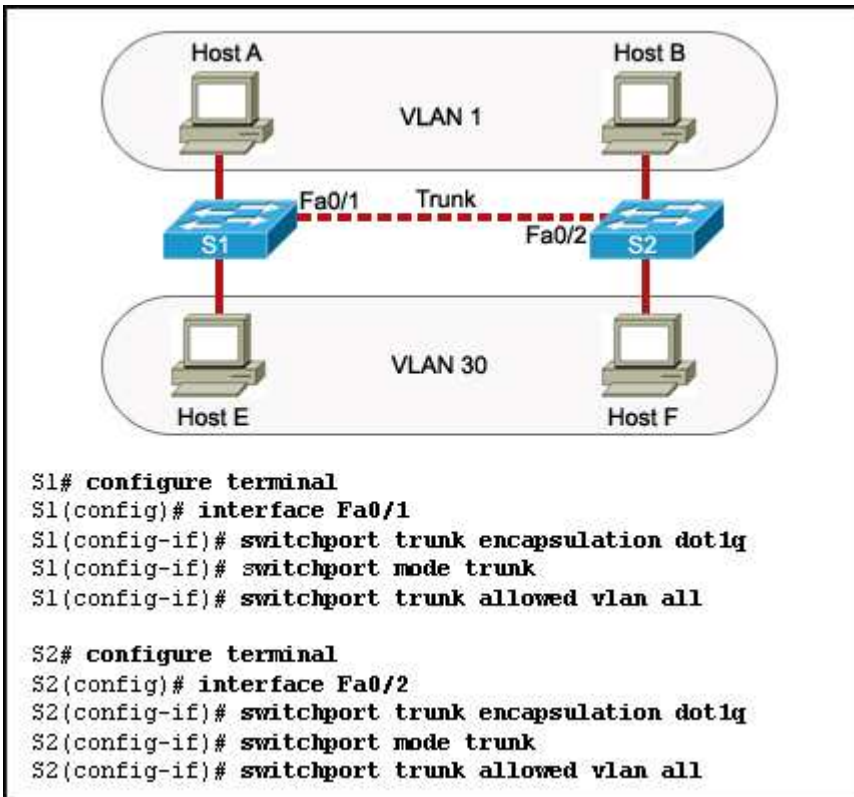
28
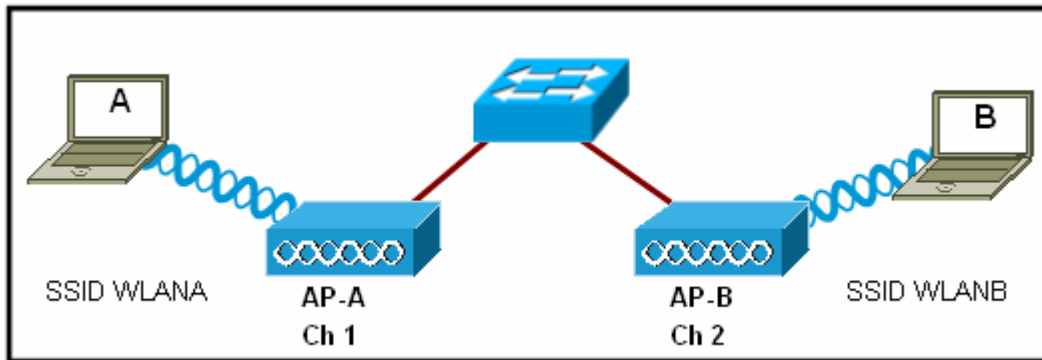
Refer to the exhibit. Users A and B are reporting intermittent connectivity problems. Pre-installation surveys showed strong signal strength from the AP locations to the client locations. Outside electrical interference has been eliminated. What will fix the problem?

- Relocate the APs closer to each other.
- Increase the distance between the clients.
- Change the channel on AP-B to 6 or 11.
- Place AP-A and AP-B on the same wireless channel.

29


```
S1# configure terminal
S1(config)# interface Fa0/1
S1(config-if)# switchport trunk encapsulation dot1q
S1(config-if)# switchport mode trunk
S1(config-if)# switchport trunk allowed vlan all

S2# configure terminal
S2(config)# interface Fa0/2
S2(config-if)# switchport trunk encapsulation dot1q
S2(config-if)# switchport mode trunk
S2(config-if)# switchport trunk allowed vlan all
```
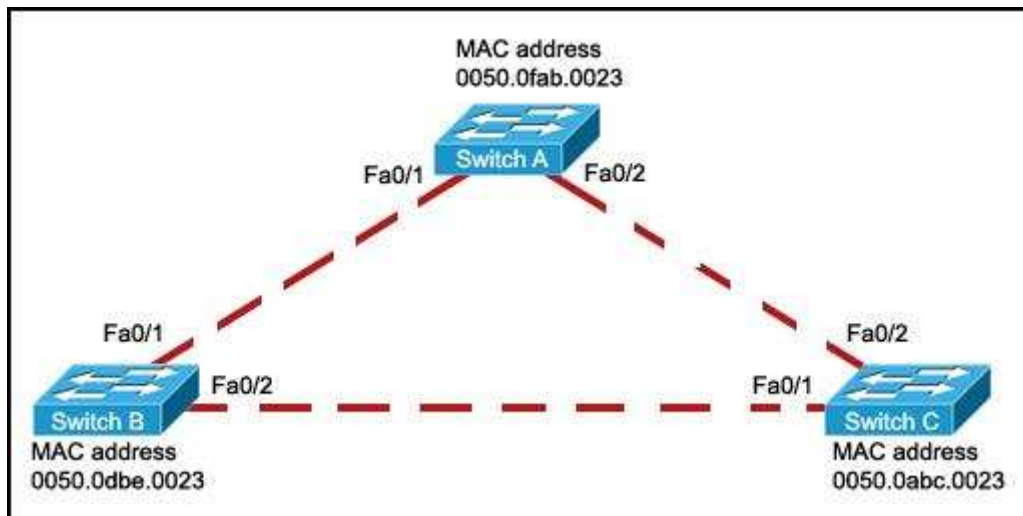
Refer to the exhibit. Both switches are configured as displayed and the native VLAN is the default. Which statement is true about the frames traveling between host A and host B?

- They will travel untagged.

⊙   They will be tagged with VLAN ID 1.

⊙   They will be tagged with the trunk Port VLAN ID.

⊙   They will be tagged with the highest VLAN ID.

30

Refer to the exhibit. All switches are configured with the default bridge priority. Which port will act as a non-designated port if all links are operating at the same bandwidth?

⊙   Fa0/1 interface of switch A

⊙   Fa0/2 interface of switch A

⊙   Fa0/1 interface of switch B

⊙   Fa0/2 interface of switch B

⊙   Fa0/1 interface of switch C

⊙   Fa0/2 interface of switch C

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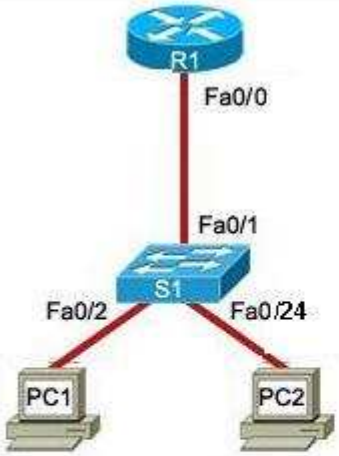**CISCO**

Assessment System

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Refer to the exhibit. After the listed commands are entered into router R1 and switch S1, PC1 and PC2 cannot ping each other. The network administrator enters the **show interfaces trunk** command and gets the results that are shown.
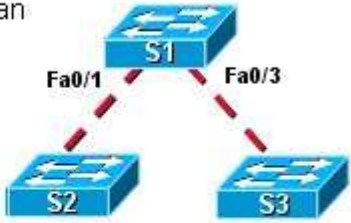What is the likely problem?

☐ The router has not been configured with a routing protocol.

☐ The trunk is established, but no VLANs have been configured to use it.

☐ The trunk has not been established because the switch port has not been configured for trunking.

☐ The switch, the router, or both must be configured with the **dynamic desirable** option for the Dynamic Trunking Protocol to establish a trunk.

32

Refer to the exhibit. What is true of the configuration of switch S1?

☐ Only VLAN 99 will be allowed to use the trunk links.

- Switch ports Fa0/1 and Fa0/3 are configured with a standard trunking protocol.

- Switch ports Fa0/1 and Fa0/3 should be configured as access ports to allow data from multiple VLANs to access switch S1.

- The switch negotiated trunk links for interfaces Fa0/1 and Fa0/3 because all connected interfaces have been configured with the **switchport mode dynamic auto** command.

33

```
Switch# show mac-address-table
       Mac Address Table
--------------------------------------------

Vlan   Mac Address     Type       Ports
----   -----------     --------   -----

  1    0004.9a32.8e01  DYNAMIC    Fa0/1
 99    0001.637b.b267  STATIC     Fa0/24
```

Refer to the exhibit. What does STATIC indicate in the output that is shown?

- Switch port Fa0/24 can only work in VLAN 99.

- VLAN 99 was manually added to the VLAN database.

- MAC address 0001.637b.b267 was learned from the source address of a frame that was received on switch port Fa0/24.

- MAC address 0001.637b.b267 was manually associated with the switch port Fa0/24.

34


```
ABD# show spanning-tree interface fastethernet 0/2
Interface Fa0/2 (port 14) in Spanning tree 1 is LEARNING
        Port path cost 19, Port priority 128
        Designated root has priority 32768, address 0030.949d.6f80
        Designated bridge has priority 32768, address 0030.949d.6f80
        Designated port is 14, path cost 0
        Timers: message age 1, forward delay 0, hold 0
        BPDU: sent 5, received 1836
```

Refer to the exhibit. What does "LEARNING" mean as it relates to the Spanning Tree Protocol?

- The switch is sending and receiving data frames.

- The switch is not receiving BPDUs, but is sending and receiving data.

- The switch is participating in the election process by forwarding the BPDUs it receives.

- The switch is receiving BPDUs and populating the MAC address table, but not sending data.

35 The network administrator wants to configure a switch to pass VLAN update information to other switches in the domain but not update its own local VLAN database. Which two steps should the administrator perform to achieve this? (Choose two.)

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☐ Reset the VTP counters.

☐ Configure VTP version 1 on the switch.

☐ Configure the VTP mode of the switch to transparent.

☐ Verify that the switch has a higher configuration revision number.

☐ Configure the switch with the same VTP domain name as other switches in the network.

36 What is the purpose of the Spanning Tree algorithm?

◯ It propagates VLAN configurations to other switches.

◯ It restricts broadcast packets to a single VLAN.

◯ It segments a network into multiple broadcast domains.

◯ It prevents loops in a switched network with redundant paths.

37

CAM Table				
Station	Port 1	Port 2	Port 3	Port 4
00-00-3D-1F-11-01			X	
00-00-3D-1F-11-02				X
00-00-3D-1F-11-03	X			

Received Frame			
Destination	Source	Data	CRC
00-00-3D-1F-11-05	00-00-3D-1F-11-01		

Refer to the exhibit. An administrator documented the output of a CAM table from an Ethernet switch as shown.
What action will the switch take when it receives the frame shown at the bottom of the exhibit?

◯ discard the frame

◯ forward the frame out port 2

◯ forward the frame out port 3

◯ forward the frame out all ports

◯ forward the frame out all ports except port 3

◯ add station 00-00-3D-1F-11-05 to port 2 in the forwarding table

38 Which parameter is associated with wireless authentication?

◯ shared key

◯ SSID

◯ ad hoc

▣ channel

39

Refer to the exhibit. Router RA receives a packet with a source address of 192.168.1.65 and a destination address of 192.168.1.85. What will the router do with this packet?

▣ The router will ignore the packet.

▣ The router will forward the packet out interface FastEthernet 0/1.2 and interface FastEthernet 0/1.3.

▣ The router will forward the packet out interface FastEthernet 0/1.1.

▣ The router will forward the packet out interface FastEthernet 0/1.2.

▣ The router will forward the packet out interface FastEthernet 0/1.3.

40
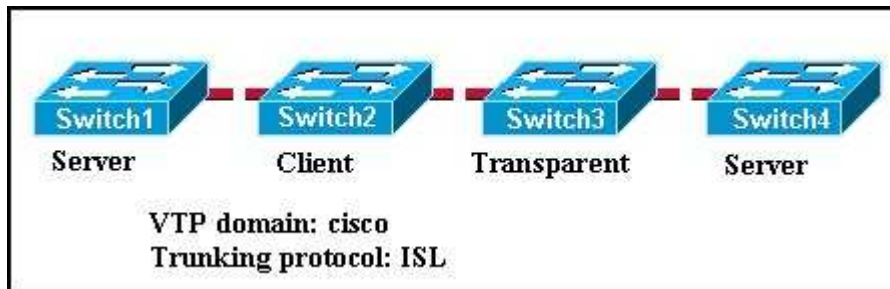
Refer to the exhibit. The switches are configured for VTP as shown. Which two statements correctly describe the operation of these switches? (Choose two.)

☐ A new VLAN can be added to Switch1 and that information will be added only to Switch2.

☐ A new VLAN can be added to Switch1 and that information will be added to Switch2 and Switch4.

☐ An existing VLAN can be deleted from Switch4 and that VLAN will be deleted from Switch1 and Switch2.

☐ An existing VLAN can be deleted from Switch2 and that VLAN will be deleted from Switch1 and Switch4.

☐ A new VLAN can be added to Switch4 and that information will be added to Switch1, Switch2, and Switch3.

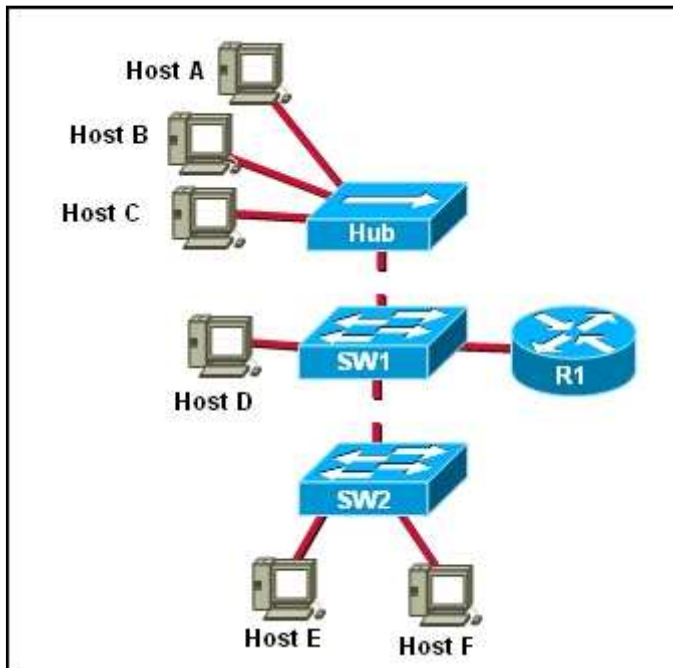☐ A new VLAN can be added to Switch3 and that information will be added to Switch1, Switch2, and Switch4.

41 In which mode is a VTP switch operating if it does not allow for the creation of local VLANs but it does accept

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VLAN updates from other switches in the same domain?

◯ client

◯ root

◯ server

◯ transparent

42

Refer to the exhibit. Hosts B and C attempt to transmit a frame at the same time, but a collision occurs.
Which hosts will receive the collision jamming signal?

◯ all hosts that are shown

◯ only hosts B and C

◯ only hosts A, B, and C

◯ only hosts A, B, C, and D

◯ only hosts A, D, E, and F

◯ only hosts D, E, and F

43

```
Router# show running-configuration
<output omitted>
!
interface FastEthernet0/1
  no ip address
  duplex auto
  speed auto
!
interface FastEthernet0/1.1
  encapsulation dot1q 1 native
  ip address 192.168.1.1 255.255.255.0
  no ip redirects
!
interface FastEthernet0/1.3
  encapsulation dot1q 3
  ip address 192.168.3.1 255.255.255.0
  no ip redirects
!
<output omitted>
```

Refer to the exhibit. Which three options correctly describe the router configuration that is shown? (Choose three.)

- [ ] An IEEE standard trunking protocol is in use.

- [ ] Interface Fa0/1 has been configured with subinterfaces.

- [ ] The **shutdown** command has been applied to interface Fa0/1.

- [ ] Interface Fa0/1.3 is mapped to the default management VLAN.

- [ ] The configuration is appropriate for a router-on-a-stick network design.

- [ ] An IP address should be applied to interface Fa0/1 for routing to occur.

44

```
Partial router configuration:
interface fastethernet 0/1
 no shutdown
interface fastethernet 0/1.10
 encapsulation dot1q 10
 ip address 172.16.10.94 255.255.255.224
interface fastethernet 0/1.20
 encapsulation dot1q 20
 ip address 172.16.10.126 255.255.255.224
interface fastethernet 0/1.30
 encapsulation dot1q 30
 ip address 172.16.10.158 255.255.255.224
```

Refer to the exhibit. A new host needs to be connected to VLAN 20. Which IP address should be assigned to this new host?

- ○ 172.16.10.68 /27

- ○ 172.16.10.99 /28

welcome and get lastest versions CCNA

- 172.16.10.110 /27
- 172.16.30.96 /27
- 172.16.30.120 /28
- 172.16.30.146 /27

45 What are two benefits of a hierarchical network model over a flat network design? (Choose two.)

- reduced cost of equipment
- increased network availability
- elimination of equipment downtime
- reduced size of the physical network layout
- simplification of management and troubleshooting
- elimination of the need for Layer 3 functionality

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Assessment System

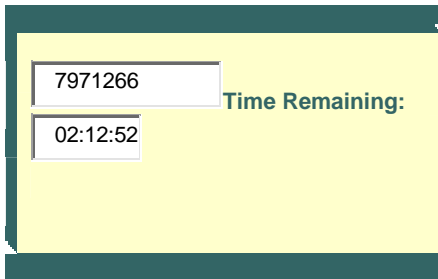1. Assessment Selection   2. Assessment Settings   3. Take Assessment

Take Assessment - ESwitching Final Exam - CCNA Exploration: LAN Switching and Wireless (Version 4.0)

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Time Remaining:

02:12:52

46

```
Labs# show vtp status
VTP Version                       : 2
Configuration Revision            : 0
Maximum VLANs supported locally : 64
Number of existing VLANs          : 5
VTP Operating Mode                : Client
VTP Domain Name                   : Labs
VTP Pruning Mode                  : Disabled
VTP V2 Mode                       : Disabled
VTP Traps Generation              : Disabled
MD5 digest                        : 0x2D 0x88 0xA9 0x2A 0xC4 0xF8 0x77 0xEF
Configuration last modified by 0.0.0.0 at 8-10-08 14:02:39
```

Refer to the exhibit. This switch is to be added to the production network. Which two facts about VLANs and VTP operation can be confirmed by this output? (Choose two.)

☐ The network administrator will be able to configure VLANs of local significance on this switch.

☐ VLANs can only be added to the VLAN database on this switch by a VTP advertisement.

☐ All VLANs that are configured on this switch will be sent to all other switches in the same VTP domain.

☐ This switch will drop all VTP advertisements that come from switches that are configured in the same VTP domain.

☐ Adding this switch to the network will cause no disruption in the VTP domain operations if the rest of the switches in the same domain have a higher configuration revision number.

47

```
    Sl(config)# line vty 0
    Sl(config-line)# password cisco
    Sl(config-line)# login
```
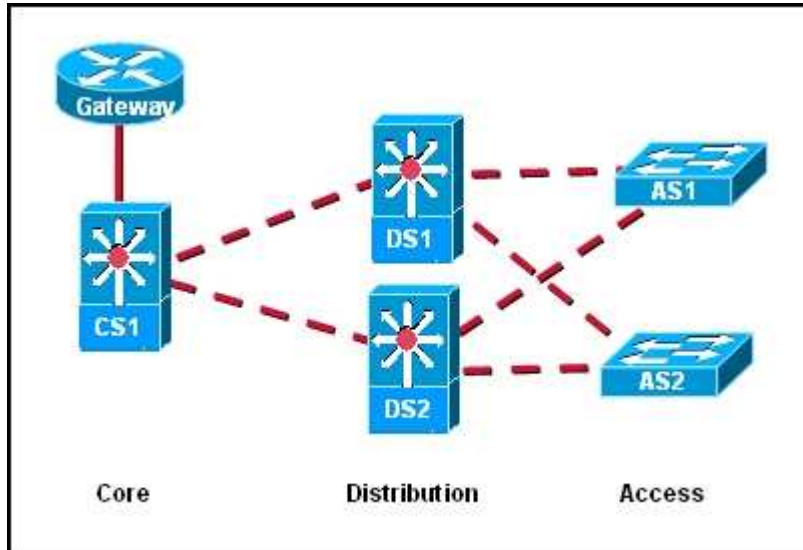
Refer to the exhibit. What is the result of issuing these commands?

○ The enable password will be set.

○ The password will be set for the first Telnet connection.

⬚ The password will be set for the console connection.

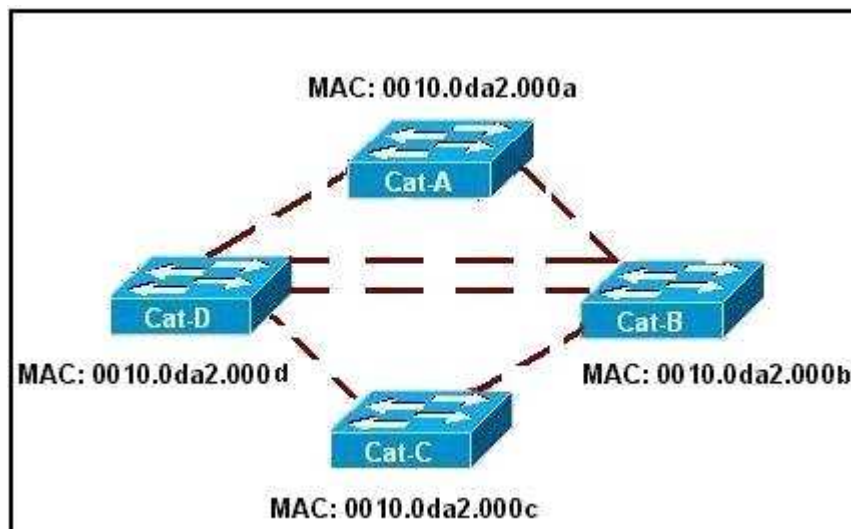⬚ The password will be set for the auxiliary connection.

48

Refer to the exhibit. A network administrator needs to add IP phones to the network. To which devices should the IP phones connect?

⬚ AS1 and AS2

⬚ DS1 and DS2

⬚ DS1, DS2, and CS1

⬚ AS1, AS2, DS1, and DS2

49

Refer to the exhibit. Assuming the bridge priority values are set to default on all switches, which switch will be

elected as the root bridge of the spanning tree topology?

- ⚪ Cat-A
- ⚪ Cat-B
- ⚪ Cat-C
- ⚪ Cat-D

50

```
R1# show interfaces fa0/0
FastEthernet0/0 is up, line protocol is up
<output omitted>
```

```
R1# show interfaces fa0/0.1
FastEthernet0/0.1 is up, line protocol is up
Internet address is 10.10.10.1/24
Encapsulation 802.1Q Virtual LAN, VLAN ID 10.
<output omitted>
```

```
R1# show interfaces fa0/0.2
FastEthernet0/0.2 is up, line protocol is up
Internet address is 10.10.20.1/24
Encapsulation 802.1Q Virtual LAN, VLAN ID 20.
<output omitted>
```

Refer to the exhibit. Router R1 is connected to a switch through a trunk. What two ways are indicative of how the router handles incoming VLAN traffic? (Choose two.)

- ☐ Data from VLAN 20 is not being routed.
- ☐ Incoming traffic with VLAN ID 1 is processed by interface Fa0/0.
- ☐ Incoming traffic that has a VLAN ID of 10 is processed by subinterface Fa0/0.1.
- ☐ VLAN traffic is processed on the subinterfaces even if Fa0/0 line protocol goes down.
- ☐ The router uses a unique MAC address on VLAN 10 and 20 by adding the 802.1Q VLAN ID to the hardware address.
- ☐ Traffic inbound on this router is processed by different subinterfaces depending on the VLAN from which the traffic originated.

51

```
S2# configure terminal
S2(config)# enable password cisco1
S2(config)# enable secret cisco2
S2(config)# line vty 0 5
S2(config-line)# password cisco
S2(config-line)# login
S2(config-line)# line console 0
S2(config-line)# password cisco3
S2(config-line)# login
S2(config-line)# end
```

Refer to the exhibit. Which password allows the administrator to enter the privileged exec mode?

- ⚪ cisco1

☐ cisco2

☐ cisco3

☐ cisco

---

52 What are three features of router-on-a-stick, inter-VLAN routing? (Choose three.)

☐ requires the use of VTP

☐ requires the use of subinterfaces

☐ reduces the number of broadcast domains

☐ affects performance when many VLANs are used

☐ requires an access link between the router and at least one switch

☐ is more cost effective than other approaches to inter-VLAN routing

☐ dictates that at least two switch ports be used between the router and the switch

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