

642-813: Implementing Cisco IP Switched Networks (SWITCH)

1. Answer: A, B, D

Which three statements about STP timers are true? (Choose three.)

- A. STP timers values (hello, forward delay, max age) are included in each BPDU.
- B. A switch is not concerned about its local configuration of the STP timers values. It will only consider the value of the STP timers contained in the BPDU it is receiving.
- C. To successfully exchange BPDUs between two switches, their STP timers value (hello, forward delay, max age) must be the same.
- D. If any STP timer value (hello, forward delay, max age) needs to be changed, it should at least be changed on the root bridge and backup root bridge.
- E. On a switched network with a small network diameter, the STP hello timer can be tuned to a lower value to decrease the load on the switch CPU.
- F. The root bridge passes the timer information in BPDUs to all routers in the Layer 3 configuration.

2. Answer: A

What is the effect of configuring the following command on a switch?

Switch(config) # **spanning-tree portfast bpdudfilter default**

- A. If BPDUs are received by a port configured for PortFast, then PortFast is disabled and the BPDUs are processed normally.
- B. If BPDUs are received by a port configured for PortFast, they are ignored and none are sent.
- C. If BPDUs are received by a port configured for Portfast, the port will transition to forwarding state.
- D. The command will enable BPDU filtering on all ports regardless of whether they are configured for BPDU filtering at the interface level.

3. Answer: A, B, C

Which three WLAN statements are true? (Choose three.)

- A. A lightweight AP receives control and configuration from a WLAN controller to which it is associated.
- B. A WLAN client that is operating in half-duplex mode will delay all clients in that WLAN.
- C. Ad hoc mode allows mobile clients to connect directly without an intermediate AP.
- D. Another term for infrastructure mode is independent service set (IBSS).
- E. The Aironet 1230 access point is an example of an access point that operates solely as a lightweight access point.
- F. WLANs are designed to share the medium and can easily handle an increased demand of channel contention.

4. Answer: B, C, E, F

With Cisco Express Forwarding, prefixes that require exception processing can be cached with one of which four special adjacencies. (Choose four.)

- A. forward
- B. null
- C. glean
- D. kick
- E. discard
- F. drop

5. Answer: C

```
interface FastEthernet 0/13
channel-group 1 mode desirable
```

Refer to the exhibit. What does the command **channel-group 1 mode desirable** do?

- A. enables LACP unconditionally
- B. enables PAgP only if a PAgP device is detected
- C. enables PAgP unconditionally
- D. enables Etherchannel only
- E. enables LACP only if a LACP device is detected

6. Answer: D

What action should a network administrator take to enable VTP pruning on an entire management domain?

- A. enable VTP pruning on any client switch in the domain
- B. enable VTP pruning on every switch in the domain
- C. enable VTP pruning on any switch in the management domain
- D. enable VTP pruning on a VTP server in the management domain

7. Answer: C

```
Switch_A(config-if)# ip address 10.10.10.1 255.255.255.0
Switch_A(config-if)# standby 1 priority 200
Switch_A(config-if)# standby 1 preempt
Switch_A(config-if)# standby 1 track interface fa 1/1
Switch_A(config-if)# standby 1 ip 10.10.10.10
```

Refer to the exhibit. Assume that Switch_A is active for the standby group and the standby device has only the default HSRP configuration. What conclusion is valid?

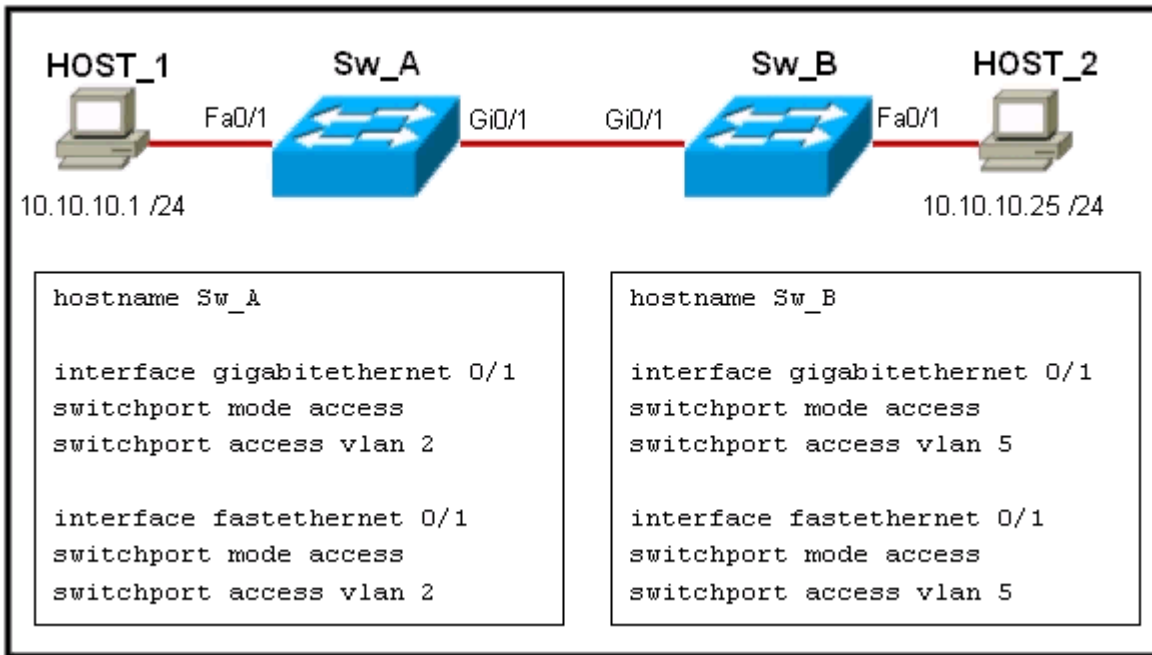
- A. If port Fa1/1 on Switch_A goes down, the standby device will take over as active.
- B. If the current standby device were to have the higher priority value, it would take over the role of active for the HSRP group.
- C. If port Fa1/1 on Switch_A goes down, the new priority value for the switch would be 190.
- D. If Switch_A had the highest priority number, it would not take over as active router.

8. Answer: B, D

Which two statements are true about recommended practices in VLAN design? (Choose two.)

- A. Routing should occur at the access layer if voice VLANs are utilized. Otherwise, routing should occur at the distribution layer.
- B. Routing should always be performed at the distribution layer.
- C. Routing should not be performed between VLANs located on separate switches.
- D. VLANs should be localized to a switch.
- E. VLANs should be localized to a single switch unless voice VLANs are being utilized.

9. Answer: D



Refer to the exhibit. Both host stations are part of the same subnet but are in different VLANs. On the basis of the information presented in the exhibit, which statement is true about an attempt to ping from host to host?

- A. A trunk port will need to be configured on the link between Sw_A and Sw_B for the **ping** command to be successful.
- B. The two different hosts will need to be in the same VLAN in order for the **ping** command to be successful.
- C. A Layer 3 device is needed for the **ping** command to be successful.
- D. The **ping** command will be successful without any further configuration changes.

10. Answer: C

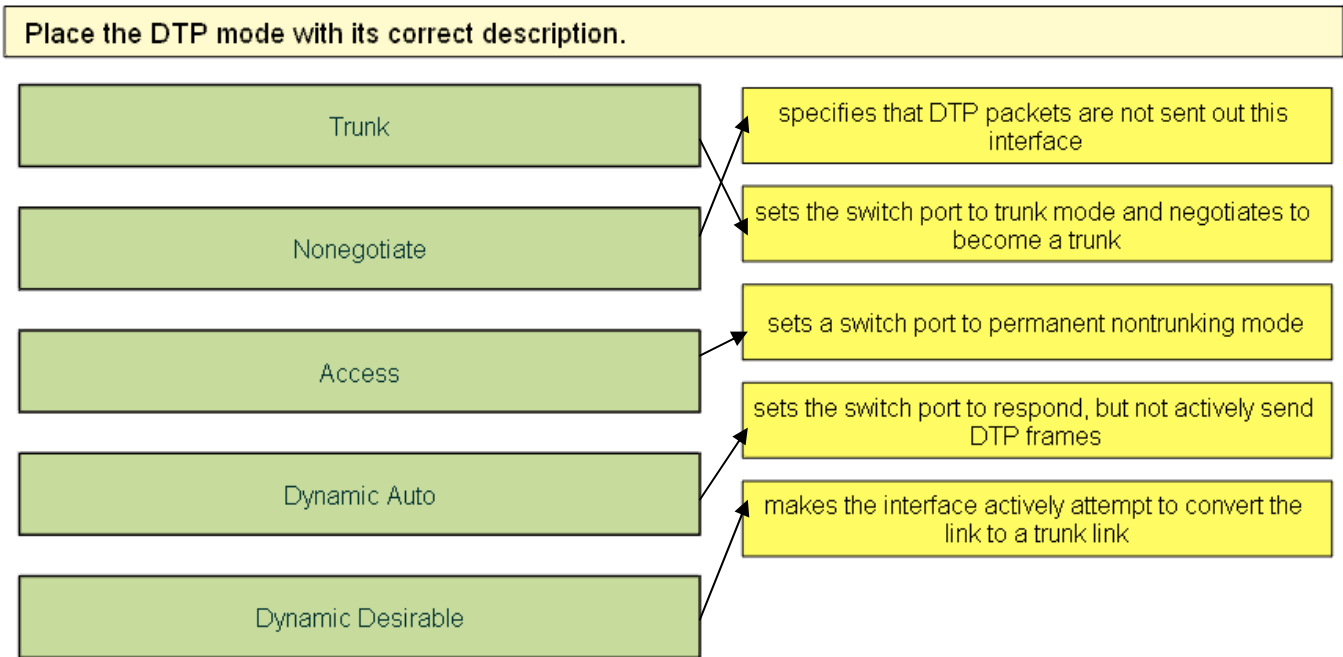
```
Switch# show port-security interface fastethernet 5/1

Port Security: EnabledPort
Status: SecureUp
Violation mode: Shutdown
Maximum MAC Addresses: 11
Total MAC Addresses: 11
Configured MAC Addresses: 3
Aging time: 20 mins
Aging type: Inactivity
SecureStatic address aging: Enabled
Security Violation count: 0
```

Refer to the exhibit. What will happen when one more user is connected to interface FastEthernet 5/1?

- A. All secure addresses will age out and be removed from the secure address list. This will cause the security violation counter to increment.
- B. The first address learned on the port will be removed from the secure address list and be replaced with the new address.
- C. The interface will be placed into the error-disabled state immediately, and an SNMP trap notification will be sent.
- D. The packets with the new source addresses will be dropped until a sufficient number of secure MAC addresses are removed from the secure address list.

11. Answer:



12. Answer: B, D

```
Core1# show interfaces gigabitethernet0/1 switchport
Name: Gi0/1
Switchport: Enabled
Administrative Mode: static access
Operational Mode: static access
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: native
Negotiation of Trunking: Off
Access Mode VLAN: 7 (Core)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Unknown unicast blocked: disabled
Unknown multicast blocked: disabled

Appliance trust: none
```

Refer to the **show interface Gi0/1 switchport** command output shown in the exhibit. Which two statements are true about this interface? (Choose two.)

- A. This interface is a dot1q trunk passing all configured VLANs.
- B. This interface is configured for access mode.
- C. This interface is a member of VLAN1.
- D. This interface is a member of VLAN7.
- E. This interface is a member of a voice VLAN.