

## **Exam Questions 300-115**

SWITCH Implementing Cisco IP Switched Networks

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1. Which type of information does the DHCP snooping binding database contain?

- A. untrusted hosts with leased IP addresses
- B. trusted hosts with leased IP addresses
- C. untrusted hosts with available IP addresses
- D. trusted hosts with available IP addresses

**Answer:** A

2. Which command correctly configures standby tracking for group 1 using the default decrement priority value?

- A. standby 1 track 100
- B. standby 1 track 100 decrement 1
- C. standby 1 track 100 decrement 5
- D. standby 1 track 100 decrement 20

**Answer:** A

3. Which four LACP components are used to determine which hot-standby links become active after an interface failure within an EtherChannel bundle? (Choose four.)

- A. LACP system priority
- B. LACP port priority
- C. interface MAC address
- D. system ID
- E. port number
- F. hot-standby link identification number
- G. interface bandwidth

**Answer:** A,B,D,E

4. A network engineer wants to add a new switch to an existing switch stack. Which configuration must be added to the new switch before it can be added to the switch stack?

- A. No configuration must be added.

- B. stack ID
- C. IP address
- D. VLAN information
- E. VTP information

**Answer: A**

5. Which statement describes one major issue that VTP can cause in an enterprise network when a new switch is introduced in the network in VTP mode server?

- A. It can cause network access ports to go into err-disabled state.
- B. It can cause a network-wide VLAN configuration change if the revision number on the new switch is higher.
- C. It can cause a network-wide VLAN configuration change if the revision number on the new switch is lower.
- D. It can cause routing loops.

**Answer: B**

6. After configuring new data VLANs 1020 through 1030 on the VTP server, a network engineer notices that none of the VTP clients are receiving the updates. What is the problem?

- A. The VTP server must be reloaded.
- B. The VTP version number must be set to version 3.
- C. After each update to the VTP server, it takes up to 4 hours propagate.
- D. VTP must be stopped and restarted on the server.
- E. Another switch in the domain has a higher revision number than the server.

**Answer: B**

7. What is the size of the VLAN field inside an 802.1q frame?

- A. 8-bit
- B. 12-bit
- C. 16-bit
- D. 32-bit

**Answer: B**

8. Which two statements are true about recommended practices that are to be used in a local VLAN solution design where layer 2 traffic is to be kept to a minimum? (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 may be performed at all layers but is most commonly done at the core and distribution layers.
- C. Routing should not be performed between VLANs located on separate switches.
- D. VLANs should be local to a switch.
- E. VLANs should be localized to a single switch unless voice VLANs are being utilized.

**Answer: B,D**

9. Several new switches have been added to the existing network as VTP clients. All of the new switches have been configured with the same VTP domain, password, and version. However, VLANs are not passing from the VTP server (existing network) to the VTP clients. What must be done to fix this?

- A. Remove the VTP domain name from all switches with "null" and then replace it with the new domain name.
- B. Configure a different native VLAN on all new switches that are configured as VTP clients.
- C. Provision one of the new switches to be the VTP server and duplicate information from the existing network.
- D. Ensure that all switch interconnects are configured as trunks to allow VTP information to be transferred.

**Answer: D**

10. What is the function of NSF?

- A. forward traffic simultaneously using both supervisors
- B. forward traffic based on Cisco Express Forwarding
- C. provide automatic failover to back up supervisor in VSS mode
- D. provide nonstop forwarding in the event of failure of one of the member supervisors

**Answer: D**

11. What is the default value for the errdisable recovery interval in a Cisco switch? A. 30 seconds

- B. 100 seconds
- C. 300 seconds
- D. 600 seconds

**Answer: C**

12. A network engineer configures port security and 802.1x on the same interface. Which option describes what this configuration allows?

- A. It allows port security to secure the MAC address that 802.1x authenticates.
- B. It allows port security to secure the IP address that 802.1x authenticates.
- C. It allows 802.1x to secure the MAC address that port security authenticates.
- D. It allows 802.1x to secure the IP address that port security authenticates.

**Answer: A**

13. What is required for a LAN switch to support 802.1q Q-in-Q encapsulation?

- A. Support less than 1500 MTU
- B. Support 1504 MTU or higher
- C. Support 1522 layer 3 IP and IPX packet
- D. Support 1547 MTU only

**Answer: B**

14. Which gateway role is responsible for answering ARP requests for the virtual IP address in GLBP?

- A. active virtual forwarder
- B. active virtual router
- C. active virtual gateway
- D. designated router

**Answer: C**

15. Refer to the exhibit.

```
Switch#sh int g0/12
GigabitEthernet0/23 is up, line protocol is down (monitoring)
  Hardware is C6k 1000Mb 802.3, address is 001c.f9d4.7500 (bia
  001c.f9d4.750)
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
    Reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Full-duplex, 1000Mb/s
```

A network engineer investigates a recent network failure and notices that one of the interfaces on the switch is still down. What is causing the line protocol on this interface to be shown as down?

- A. There is a layer 1 physical issue.
- B. There is a speed mismatch on the interface.
- C. The interface is configured as the target of the SPAN session.
- D. The interface is configured as the source of the SPAN session.
- E. There is a duplex mismatch on the interface.

**Answer: C**

16. On which layer does IP source guard provide filtering to prevent a malicious host from impersonating the IP address of a legitimate host?

- A. Layer 1
- B. Layer 2
- C. Layer 3
- D. Layer 7

**Answer: B**

17. Pilot testing of the new switching infrastructure finds that when the root port is lost, STP immediately replaces the root port with an alternative root port. Which spanning-tree technology is used to accomplish backup root port selection?

- A. PVST+
- B. PortFast
- C. BackboneFast
- D. UplinkFast

E. Loop Guard

F. UDLD

**Answer: D**

18. Which feature is automatically configured when an administrator enables a voice VLAN?

A. 802.1Q trunking

B. PortFast

C. QoS

D. private VLANs

**Answer: B**

19. Enablement of which feature puts the port into err-disabled state when the port has PortFast enabled and it receives BPDUs?

A. BPDU filtering

B. BackboneFast

C. EtherChannel

D. BPDU guard

**Answer: D**

20. For client server failover purposes, the application server team has indicated that they must not have the standard 30 second delay before their switchport enters a forwarding state. For their disaster recovery feature to operate successfully, they require the switchport to enter a forwarding state immediately. Which spanning-tree feature satisfies this requirement?

A. Rapid Spanning-Tree

B. Spanning-Tree Timers

C. Spanning-Tree FastPort

D. Spanning-Tree PortFast

E. Spanning-Tree Fast Forward

**Answer: D**

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