



CCNA2 v6.0 Chapter 6 Exam Answer 2017

CCNA7

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1. **What are three primary benefits of using VLANs? (Choose three.)**
 - security
 - a reduction in the number of trunk links
 - cost reduction
 - end user satisfaction
 - improved IT staff efficiency
 - no required configuration
2. **Which type of VLAN is used to designate which traffic is untagged when crossing a trunk port?**
 - data
 - default
 - native
 - management

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3. **A network administrator is determining the best placement of VLAN trunk links. Which two types of point-to-point connections utilize VLAN trunking? (Choose two.)**

- **between two switches that utilize multiple VLANs**
- between a switch and a client PC
- **between a switch and a server that has an 802.1Q NIC**
- between a switch and a network printer
- between two switches that share a common VLAN

4. **What must the network administrator do to remove Fast Ethernet port fa0/1 from VLAN 2 and assign it to VLAN 3?**

- Enter the no vlan 2 and the vlan 3 commands in global configuration mode.
- **Enter the switchport access vlan 3 command in interface configuration mode.**
- Enter the switchport trunk native vlan 3 command in interface configuration mode.
- Enter the no shutdown command in interface configuration mode to return it to the default configuration and then configure the port for VLAN 3.

5. **When a Cisco switch receives untagged frames on a 802.1Q trunk port, which VLAN ID is the traffic switched to by default?**

- unused VLAN ID
- **native VLAN ID**
- data VLAN ID
- management VLAN ID

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6. **Port Fa0/11 on a switch is assigned to VLAN 30. If the command `no switchport access vlan 30` is entered on the Fa0/11 interface, what will happen?**

- Port Fa0/11 will be shutdown.
- An error message would be displayed.
- **Port Fa0/11 will be returned to VLAN 1.**
- VLAN 30 will be deleted.

7. Which command is used to remove only VLAN 20 from a switch?

- `delete vlan.dat`
- `delete flash:vlan.dat`
- **`no vlan 20`**
- `no switchport access vlan 20`

8. **What happens to a port that is associated with VLAN 10 when the administrator deletes VLAN 10 from the switch?**

- **The port becomes inactive.**
- The port goes back to the default VLAN.
- The port automatically associates itself with the native VLAN.
- The port creates the VLAN again.

9. **Which two characteristics match extended range VLANs? (Choose two.)**

- CDP can be used to learn and store these VLANs.
- VLAN IDs exist between 1006 to 4094.
- **They are saved in the running-config file by default.**

- VLANs are initialized from flash memory.
 - They are commonly used in small networks.
10. **A Cisco switch currently allows traffic tagged with VLANs 10 and 20 across trunk port Fa0/5. What is the effect of issuing a switchport trunk allowed vlan 30 command on Fa0/5?**
- It allows VLANs 1 to 30 on Fa0/5.
 - It allows VLANs 10, 20, and 30 on Fa0/5.
 - **It allows only VLAN 30 on Fa0/5.**
 - It allows a native VLAN of 30 to be implemented on Fa0/5.
11. **Refer to the exhibit. PC-A and PC-B are both in VLAN 60. PC-A is unable to communicate with PC-B. What is the problem?**
- The native VLAN should be VLAN 60.
 - The native VLAN is being pruned from the link.
 - The trunk has been configured with the switchport nonegotiate command.
 - **The VLAN that is used by PC-A is not in the list of allowed VLANs on the trunk.**
12. **Refer to the exhibit. DLS1 is connected to another switch, DLS2, via a trunk link. A host that is connected to DLS1 is not able to communicate to a host that is connected to DLS2, even though they are both in VLAN 99. Which command should be added to Fa0/1 on DLS1 to correct the problem?**
- switchport nonegotiate
 - switchport mode dynamic auto
 - **switchport trunk native vlan 66**
 - switchport trunk allowed vlan add 99
13. **What is a characteristic of legacy inter-VLAN routing?**
- Only one VLAN can be used in the topology.
 - **The router requires one Ethernet link for each VLAN.**
 - The user VLAN must be the same ID number as the management VLAN.
 - Inter-VLAN routing must be performed on a switch instead of a router.
14. **What is a disadvantage of using router-on-a-stick inter-VLAN routing?**
- does not support VLAN-tagged packets

- requires the use of more physical interfaces than legacy inter-VLAN routing
- **does not scale well beyond 50 VLANs**
- requires the use of multiple router interfaces configured to operate as access links

15. **Refer to the exhibit. Router RA receives a packet with a source address of 192.168.1.35 and a destination address of 192.168.1.85. What will the router do with this packet?**

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

16. **Refer to the exhibit. In what switch mode should port G0/1 be assigned if Cisco best practices are being used?**

- access
- **trunk**
- native
- auto

17. **A small college uses VLAN 10 for the classroom network and VLAN 20 for the office network. What is needed to enable communication between these two VLANs while using legacy inter-VLAN routing?**

- **A router with at least two LAN interfaces should be used.**
- Two groups of switches are needed, each with ports that are configured for one VLAN.
- A router with one VLAN interface is needed to connect to the SVI on a switch.
- A switch with a port that is configured as trunk is needed to connect to a router.

18. **Refer to the exhibit. A network administrator needs to configure router-on-a-stick for the networks that are shown. How many subinterfaces will have to be created on the router if each VLAN that is shown is to be**

routed and each VLAN has its own subinterface?

- 1
- 2
- 3
- 4
- 5

19. When configuring a router as part of a router-on-a-stick inter-VLAN routing topology, where should the IP address be assigned?

- to the interface
- to the subinterface
- to the SVI
- to the VLAN

20. A high school uses VLAN15 for the laboratory network and VLAN30 for the faculty network. What is required to enable communication between these two VLANs while using the router-on-a-stick approach?

- A multilayer switch is needed.
- A router with at least two LAN interfaces is needed.
- Two groups of switches are needed, each with ports that are configured for one VLAN.
- A switch with a port that is configured as a trunk is needed when connecting to the router.

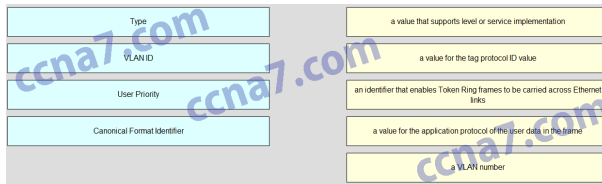
21. Refer to the exhibit. A router-on-a-stick configuration was implemented for VLANs 15, 30, and 45, according to the show running-config command output. PCs on VLAN 45 that are using the 172.16.45.0 /24 network are having trouble connecting to PCs on VLAN 30 in the 172.16.30.0 /24 network. Which error is most likely causing this problem?

- The wrong VLAN has been configured on GigabitEthernet 0/0.45.
- The command no shutdown is missing on GigabitEthernet 0/0.30.
- The GigabitEthernet 0/0 interface is missing an IP address.
- There is an incorrect IP address configured on GigabitEthernet 0/0.30.

22. Match the IEEE 802.1Q standard VLAN tag field with the descriptions. (Not all

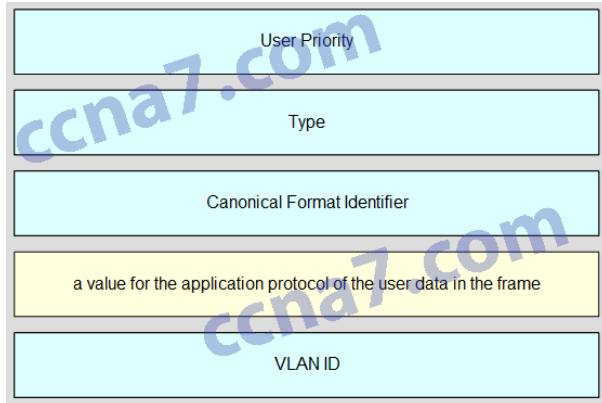
options are used.)

- Question



CCNA2 v6.0 Chapter 6 Exam Q001

- Answer



CCNA2 v6.0 Chapter 6 Exam A001

23. Fill in the blank. Use the full command syntax.

The **show vlan** command displays the VLAN assignment for all ports as well as the existing VLANs on the switch.

24. Open the PT Activity. Perform the tasks in the activity instructions and then answer the question.

Which PCs will receive the broadcast sent by PC-C?

- PC-A, PC-B
- **PC-D, PC-E**
- PC-A, PC-B, PC-E
- PC-A, PC-B, PC-D, PC-E
- PC-A, PC-B, PC-D, PC-E, PC-F

Comments

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