



200-301^{Q&As}

Implementing and Administering Cisco Solutions (CCNA) (Include Newest Simulation Labs)

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QUESTION 1

Refer to the exhibit. Users need to connect to the wireless network with IEEE 802.11r-compatible devices. The connection must be maintained as users travel between floors or to other areas in the building. What must be the configuration of the connection?

The screenshot shows a configuration page with tabs for General, Security, QoS, Policy-Mapping, and Advanced. Under Security, there are sub-tabs for Layer 2, Layer 3, and AAA Servers. The Layer 3 tab is active. The configuration includes:

- Fast Transition:** Set to Disable.
- Protected Management Frame (PMF):** Set to Disabled.
- WPA+WPA2 Parameters:**
 - WPA Policy:
 - WPA2 Policy:
 - WPA2 Encryption: AES, TKIP, CCMP256, GCMP128, GCMP256
 - OSEN Policy:
- Authentication Key Management:**
 - 802.1X: Enable
 - CCKM: Enable
 - PSK: Enable
 - FT 802.1X: Enable
 - FT PSK: Enable

- A. Select the WPA Policy option with the CCKM option.
- B. Disable AES encryption.
- C. Enable Fast Transition and select the FT 802.1x option.
- D. Enable Fast Transition and select the FT PSK option.

Correct Answer: D

QUESTION 2

Refer to the exhibit.



```
SW1#show spanning-tree vlan 30

VLAN0030
Spanning tree enabled protocol rstp
Root ID      Priority      32798
            Address      0025.63e9.c800
            Cost        19
            Port        1 (FastEthernet 2/1)
            Hello Time   2 sec
            Max Age      30 sec
            Forward Delay 20 sec

[Output suppressed]
```

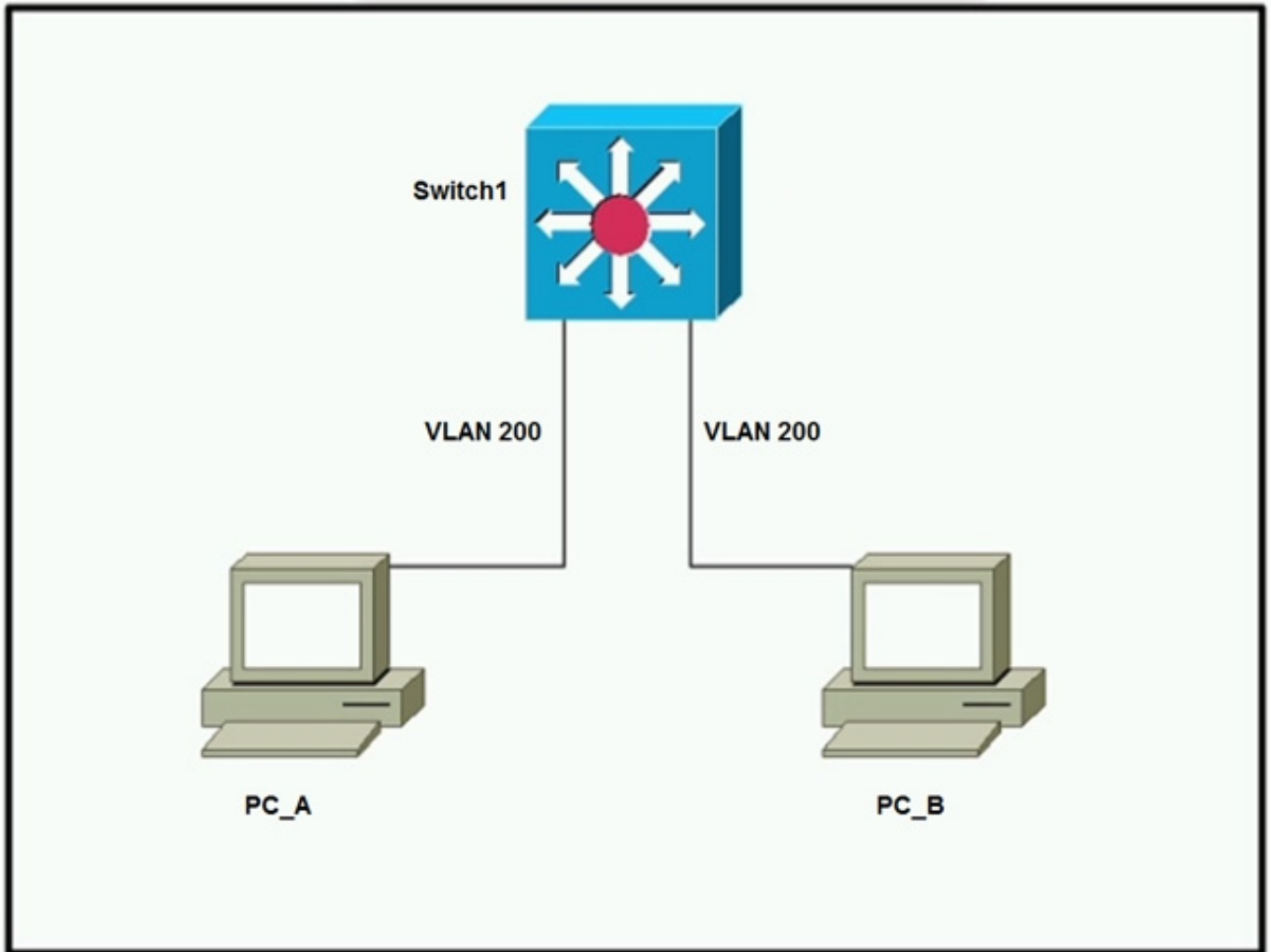
What are two conclusions about this configuration? (Choose two.)

- A. The spanning-tree mode is Rapid PVST+.
- B. This is a root bridge.
- C. The root port is FastEthernet 2/1.
- D. The designated port is FastEthernet 2/1.
- E. The spanning-tree mode is PVST+.

Correct Answer: AC

QUESTION 3

Refer to the exhibit.



Which outcome is expected when PC_A sends data to PC_B?

- A. The switch rewrites the source and destination MAC addresses with its own
- B. The source and destination MAC addresses remain the same
- C. The source MAC address is changed
- D. The destination MAC address is replaced with ffff.ffff.ffff

Correct Answer: B

You have a TCP/IP network. This means that PC A and PC B have an IP address each. PC A knows PC B's address and creates an IP packet for PC B. Then, the packet (Layer 3) becomes an Ethernet frame (Layer 2): PC A gets PC B's

MAC address and uses it as the destination L2 address.

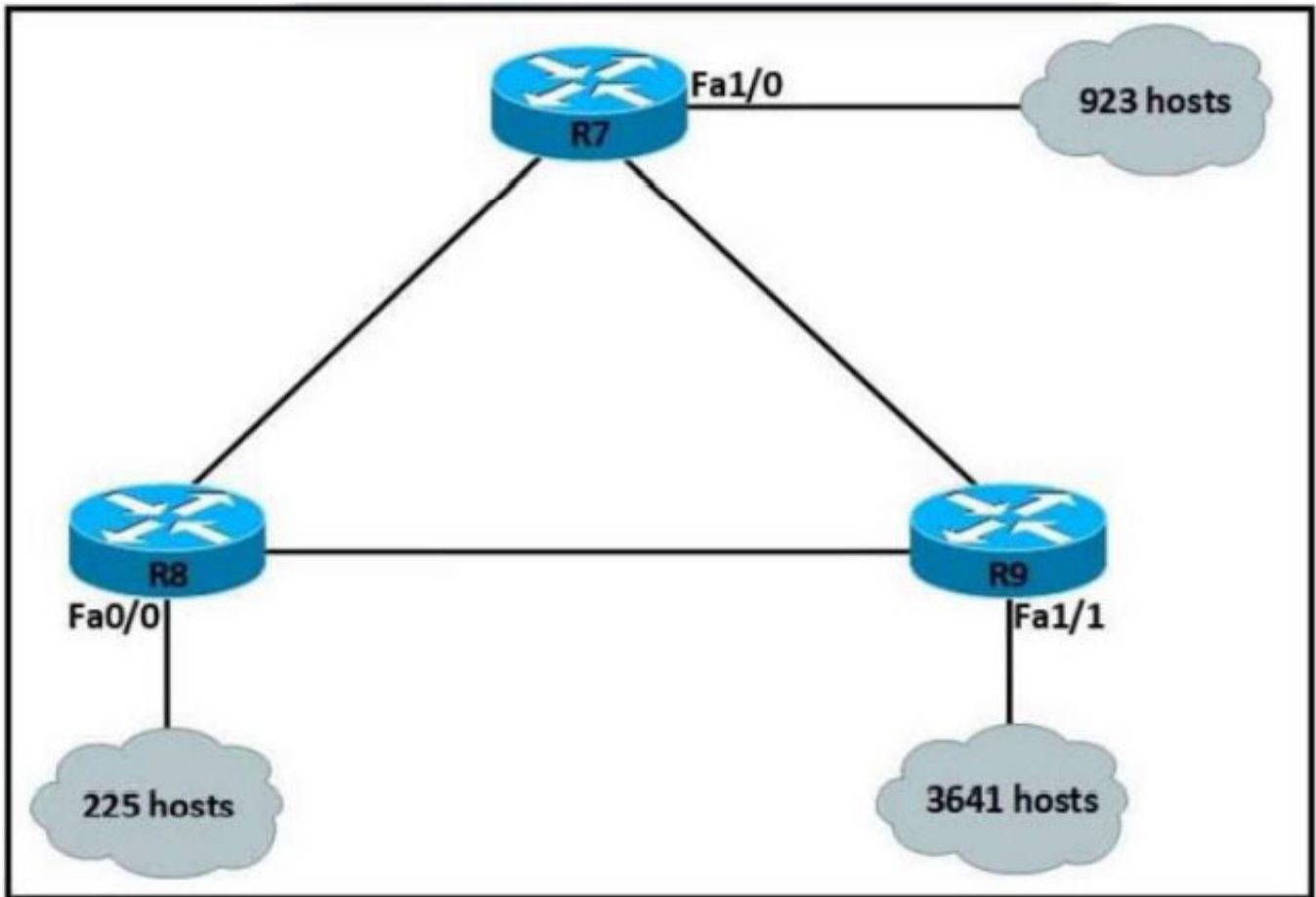
When the frame arrives at SW1, the switch looks at the destination MAC address and controls (in its MAC table) to which port that address is associated. Then, the switch sends the frame to PC B through that port (forwarding phase).

The switch leaves unchanged BOTH the source and the destination MAC addresses inside the frame.



QUESTION 4

Refer to the exhibit.



An IP subnet must be configured on each router that provides enough addresses for the number of assigned hosts and anticipates no more than 10% growth for now hosts. Which configuration script must be used?



```
R7#  
configure terminal  
interface Fa1/0  
ip address 10.1.56.1 255.255.192.0  
no shutdown  
R8#  
configure terminal  
interface Fa0/0  
ip address 10.9.32.1 255.255.224.0  
no shutdown  
R9#  
configure terminal  
interface Fa1/1  
ip address 10.23.96.1 255.255.128.0  
no shutdown
```



```
R7#  
configure terminal  
interface Fa1/0  
ip address 10.1.56.1 255.255.240.0  
no shutdown  
R8#  
configure terminal  
interface Fa0/0  
ip address 10.9.32.1 255.255.224.0  
no shutdown  
R9#  
configure terminal  
interface Fa1/1  
ip address 10.23.96.1 255.255.192.0  
no shutdown
```



```
R7#  
configure terminal  
interface Fa1/0  
ip address 10.1.56.1 255.255.252.0  
no shutdown  
R8#  
configure terminal  
interface Fa0/0  
ip address 10.9.32.1 255.255.255.0  
no shutdown  
R9#  
configure terminal  
interface Fa1/1  
ip address 10.23.96.1 255.255.240.0  
no shutdown
```



```
R7#  
configure terminal  
interface Fa1/0  
ip address 10.1.56.1 255.255.192.0  
no shutdown  
R8#  
configure terminal  
interface Fa0/0  
ip address 10.9.32.1 255.255.224.0  
no shutdown  
R9#  
configure terminal  
interface Fa1/1  
ip address 10.23.96.1 255.255.128.0  
no shutdown
```



A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

QUESTION 5

DRAG DROP

Drag and drop the benefits of a Cisco Wireless Lan Controller from the left onto the correct examples on the right.



Select and Place:

Dynamic RF Feature	Controller provides centralized management of users and VLANs
Easy Deployment Process	Access points auto adjust signal strength
Optimized user performance	Controller image auto deployed to access Points
Easy upgrade process	Controller uses loadbalancing to maximize throughput

Correct Answer:

	Easy Deployment Process
	Dynamic RF Feature
	Easy upgrade process
	Optimized user performance

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