

# 200-301<sup>Q&As</sup>

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### QUESTION 1

Which statement about VLAN configuration is true?

- A. The switch must be in VTP server or transparent mode before you can configure a VLAN
- B. The switch must be in config-vlan mode before you configure an extended VLAN
- C. Dynamic inter-VLAN routing is supported on VLAN2 through VLAN 4064
- D. A switch in VTP transparent mode save the VLAN databases to the running configuration only

Correct Answer: A

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### QUESTION 2

Refer to the exhibit. Which feature is enabled by this configuration?

```
R1(config)#ip nat pool cisco 10.1.1.0 10.1.1.50 255.255.255.0
```

- A. static NAT translation
- B. a DHCP pool
- C. a dynamic NAT address pool
- D. PAT

Correct Answer: C

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### QUESTION 3

What is the path for traffic sent from one user workstation to another workstation on a separate switch in a three-tier architecture model?

- A. access - core - distribution - access
- B. access - distribution - distribution - access
- C. access - core - access
- D. access - distribution - core - distribution - access

Correct Answer: D

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**QUESTION 4**

Which command must be entered to configure a DHCP relay?

- A. ip helper-address
- B. ip address dhcp
- C. ip dhcp pool
- D. ip dhcp relay

Correct Answer: A

**QUESTION 5**

Refer to the exhibit. Which two configurations must the engineer apply on this network so that R1 becomes the DR? (Choose two.)

```

R1#show ip ospf neighbor
Neighbor ID      Pri   State           Dead Time   Address        Interface
192.168.100.2    1     FULL/BDR        00:00:32   192.168.100.2 FastEthernet0/0
192.168.100.3    1     FULL/DR         00:00:31   192.168.100.3 FastEthernet0/0
    
```

- A. R3(config)#interface fastethernet 0/0 R3(config-if)#ip ospf priority 0
- B. R1(config)#router ospf 1 R1(config-router)#router-id 192.168.100.1
- C. R1(config)#interface fastethernet 0/0 R1(config-if)#ip ospf priority 200
- D. R1(config)#interface fastethernet 0/0 R1(config-if)#ip ospf priority 0
- E. R3(config)#interface fastethernet 0/0 R3(config-if)#ip ospf priority 200

Correct Answer: AC

### QUESTION 6

Refer to the exhibit. What action establishes the OSPF neighbor relationship without forming an adjacency?

```
R1# sh ip ospf int gig0/0
Gig0/0 is up, line protocol is up
  Internet Address 10.201.24.8/28, Area 1, Attached via Network Statement
  Process ID 100, Router ID 192.168.1.1, Network Type BROADCAST, Cost: 1
  Topology-MTID      Cost      Disabled      Shutdown      Topology Name
                0          1          no           no           Base
  Transmit Delay is 1 sec, State DR, Priority 1
  Designated Router (ID) 192.168.1.1, Interface address 10.201.24.8
  No backup designated router on this network
  Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
    oob-resync timeout 40
    Hello due in 00:00:07

R2#sh ip ospf int gig0/0
gig0/0 is up, line protocol is up
  Internet Address 10.201.24.1/28, Area 1
  Process ID 100, Router ID 172.16.1.1, Network Type BROADCAST, Cost: 1
  Transmit Delay is 1 sec, State DR, Priority 1
  Designated Router (ID) 172.16.1.1, Interface address 10.201.24.1
  No backup designated router on this network
  Timer intervals configured, Hello 20, Dead 80, Wait 80, Retransmit 5
```

- A. modify priority
- B. modify process ID
- C. modify hello interval
- D. modify network type

Correct Answer: C

### QUESTION 7

Refer to the exhibit. Packets received by the router from BGP enter via a serial interface at 209.165.201.10. Each route is present within the routing table. Which interface is used to forward traffic with a destination IP of 10.10.10.24?

EGRP	10.10.10.0/24[90/1441]	via	F0/10
EGRP	10.10.10.0/24[90/144]	via	F0/11
EGRP	10.10.10.0/24[90/1441]	via	F0/12
OSPF	10.10.10.0/24[110/20]	via	F0/13
OSPF	10.10.10.0/24[110/30]	via	F0/14

- A. F0/10
- B. F0/11
- C. F0/12
- D. F0/13

Correct Answer: B

**QUESTION 8**

Which statement identifies the functionality of virtual machines?

- A. The hypervisor communicates on Layer 3 without the need for additional resources.
- B. Each hypervisor can support a single virtual machine and a single software switch.
- C. The hypervisor can virtual physical components including CPU, memory, and storage.
- D. Virtualized servers run most efficiently when they are physically connected to a switch that is separate from the hypervisor.

Correct Answer: C

**QUESTION 9**

Refer to the exhibit. An engineer assumes a configuration task from a peer Router A must establish an OSPF neighbor relationship with neighbor 172.1.1.1. The output displays the status of the adjacency after 2 hours. What is the next step in the configuration process for the routers to establish an adjacency?

```
A# show ip ospf neighbor
Neighbor ID Pri Stat Dead Time Address Interface
172.1.1.1 1 EXCHANGE/ 00:00:36 172.16.32.1 Serial0.1
```

- A. Configure router A to use the same MTU size as router B
- B. Set the router B OSPF ID to a nonhost address.

- C. Configure a point-to-point link between router A and router B
- D. Set the router B OSPF ID to the same value as its IP address

Correct Answer: B

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#### QUESTION 10

Which access layer threat-mitigation technique provides security based on identity?

- A. Dynamic ARP Inspection
- B. using a non-default native VLAN
- C. 802.1x
- D. DHCP snooping

Correct Answer: C

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#### QUESTION 11

What is a difference between local AP mode and FlexConnect AP mode?

- A. Local AP mode creates two CAPWAP tunnels per AP to the WLC
- B. Local AP mode causes the AP to behave as if it were an autonomous AP
- C. FlexConnect AP mode fails to function if the AP loses connectivity with the WLC
- D. FlexConnect AP mode bridges the traffic from the AP to the WLC when local switching is configured

Correct Answer: D

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#### QUESTION 12

Which command on a port enters the forwarding state immediately when a PC is connected to it?

- A. switch(config)#spanning-tree portfast default
- B. switch(config)#spanning-tree portfast bpduguard default
- C. switch(config-if)#spanning-tree portfast trunk
- D. switch(config-if)#no spanning-tree portfast

Correct Answer: C

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### QUESTION 13

A router running EIGRP has learned the same route from two different paths. Which parameter does the router use to select the best path?

- A. as-path
- B. administrative distance
- C. metric
- D. cost

Correct Answer: C

If a router learns two different paths for the same network from the same routing protocol, it has to decide which route is better and will be placed in the routing table. Metric is the measure used to decide which route is better (lower number is

better). Each routing protocol uses its own metric.

For example, RIP uses hop counts as a metric, while OSPF uses cost.

Reference: <https://study-ccna.com/administrative-distance-metric/>

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### QUESTION 14

When a client and server are not on the same physical network, which device is used to forward requests and replies between client and server for DHCP?

- A. DHCP relay agent
- B. DHCP server
- C. DHCPDISCOVER
- D. DHCPOFFER

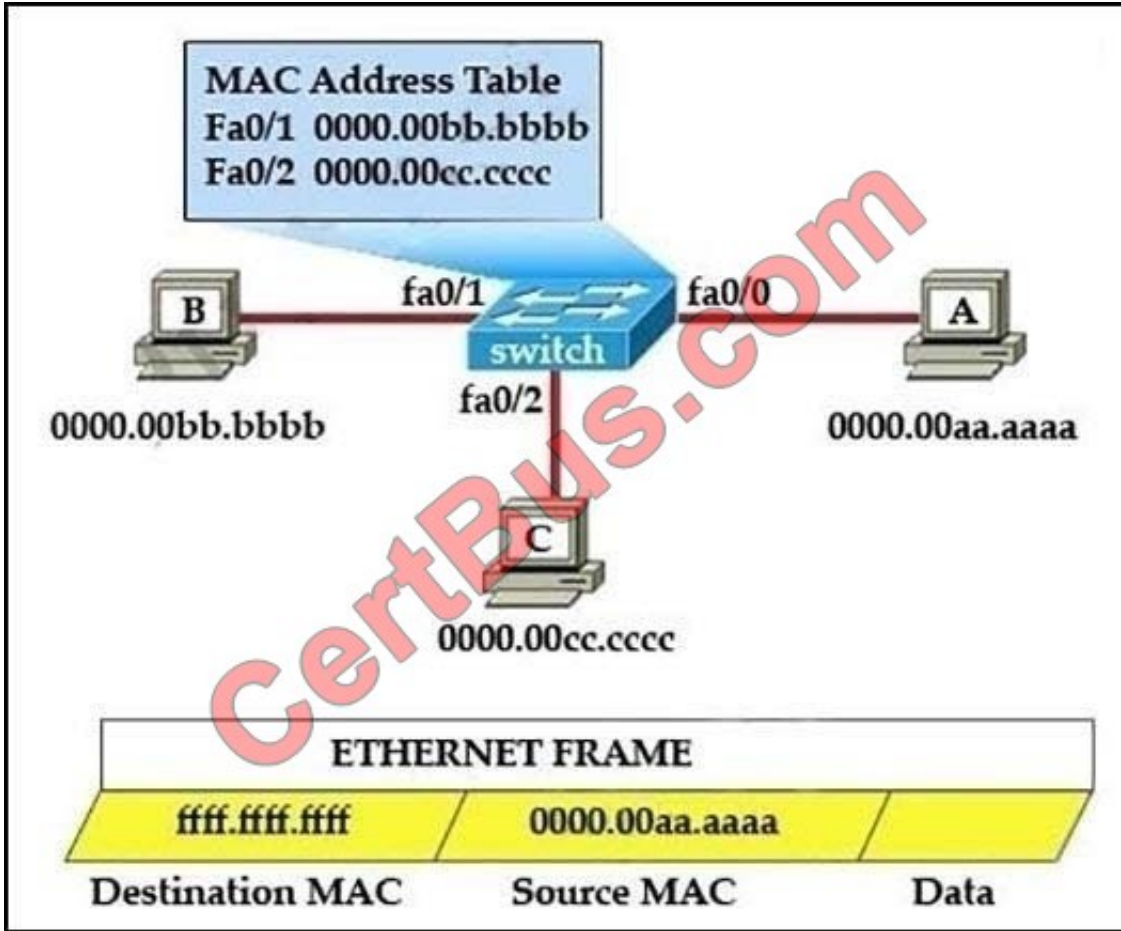
Correct Answer: A

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### QUESTION 15

Refer to the exhibit.





The MAC address table is shown in its entirety. The Ethernet frame that is shown arrives at the switch.

What two operations will the switch perform when it receives this frame? (Choose two.)

- A. The switch will not forward a frame with this destination MAC address.
- B. The frame will be forwarded out of all the ports on the switch.
- C. The MAC address of fff.fff.fff will be added to the MAC address table.
- D. The frame will be forwarded out of all the active switch ports except for port fa0/0.
- E. The MAC address of 0000.00aa.aaaa will be added to the MAC Address Table.
- F. The frame will be forwarded out of fa0/0 and fa0/1 only.

Correct Answer: DE

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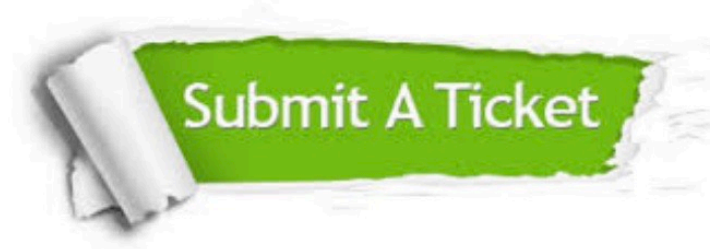
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