



400-101^{Q&As}

CCIE Routing and Switching Written

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QUESTION 1

Which two statements about root guard and loop guard are true? (Choose two)

- A. Loop guard uses its own keepalives to determine unidirectional traffic.
- B. Loop guard uses its own keepalives to prevent loops by detecting failures.
- C. Loop guard uses BPDUs to determine unidirectional traffic.
- D. Root guard should be enabled on an upstream interface.
- E. Root guard disables an interface only when a superior BPDU is received
- F. When loop guard is enabled, the port is transitioned to the root-inconsistent state.

Correct Answer: CE

QUESTION 2

Refer to the exhibit.



```
R1#sh interface f0/0
FastEthernet0/0 is down, line protocol is down

R1#show run
interface FastEthernet0/0
    ip address 192.168.12.1 255.255.255.0

interface FastEthernet0/1
    ip address 192.168.21.1 255.255.255.0

interface Serial1/0
    ip address 192.168.13.1 255.255.255.0

ip route 0.0.0.0 0.0.0.0 Serial1/0
ip route 172.16.0.0 255.255.0.0 192.168.12.2
ip route 172.16.0.0 255.255.0.0 182.168.21.2 250

R1#show ip route
Gateway of last resort is 0.0.0.0 to network 0.0.0.0

C    192.168.13.0/24 is directly connected, Serial1/0
S    172.16.0.0/16 [1/0] via 192.168.12.2
C    192.168.21.0/24 is directly connected, Ethernet0/1
S*   0.0.0.0/0 is directly connected, Serial1/0
```

While troubleshooting a connection failure on R1, you determine that F0/0 is down as shown, but the static route toward 172.16.0.0/16 still uses 192.168.12.2 as the next hop. Which action can you take so that the floating static route through interface F0/1 is used when F0/0 is down?

- A. Configure the floating static route with the egress interface instead of the next hop IP address.
- B. Configure the floating static route with an Administrative Distance of 100 instead of 250.
- C. Configure the floating static route with an Administrative Distance of 255 instead of 250.
- D. Configure the primary route with both the next hop IP address and the egress interface.

Correct Answer: D

QUESTION 3

Which two actions can you take to prevent routes from becoming stuck in active? (Choose two.)

- A. Design the network so that it uses the lowest possible number of queries



- B. Increase the Hello timers on all EIGRP interfaces
- C. Manually increase the EIGRP metrics on interfaces connected to successors
- D. Use port channeling to aggregate multiple EIGRP interfaces
- E. Increase the time a router waits before it declares routes stuck in active
- F. Increase the EIGRP K values on low-bandwidth interfaces

Correct Answer: AE

QUESTION 4

Which two statements about SNMP are true? (Choose two.)

- A. SNMPv3 uses the SHA encryption algorithm to provide authorization.
- B. SNMPv2c supports only 32-bit counters.
- C. The SNMP manager is responsible for collecting data from the MIB.
- D. SNMPv3 uses the 3DES encryption algorithm to provide data privacy.
- E. The SNMP agent is responsible for collecting data from the MIB.
- F. SNMPv2c can provide authentication as well as encryption.

Correct Answer: DE

QUESTION 5

Refer to the exhibit.

```
class-map match-any CM-EXAMPLE-1
  match dscp AF11
  match dscp AF21
class-map match-any CM-EXAMPLE-2
  match access-group 100
  match dscp EF
class-map match-all CM-EXAMPLE-3
  match dscp AF31
  match dscp AF32
class-map match-all CM-EXAMPLE-4
  match ip rtp 16384 16383
  match precedence 5
class-map match-any CM-EXAMPLE-5
  match dscp AF41 EF
```



If you apply this configuration to a device on your network, which class map cannot match traffic?

- A. CM-EXAMPLE-3
- B. CM-EXAMPLE-4
- C. CM-EXAMPLE-1
- D. CM-EXAMPLE-5
- E. CM-EXAMPLE-2

Correct Answer: A

QUESTION 6

DRAG DROP

Drag and drop the logical components of a traditional SDN infrastructure into the correct order, similar to the Open Systems Interconnection model (OSI model), working your way up from the network infrastructure layer.

Select and Place:

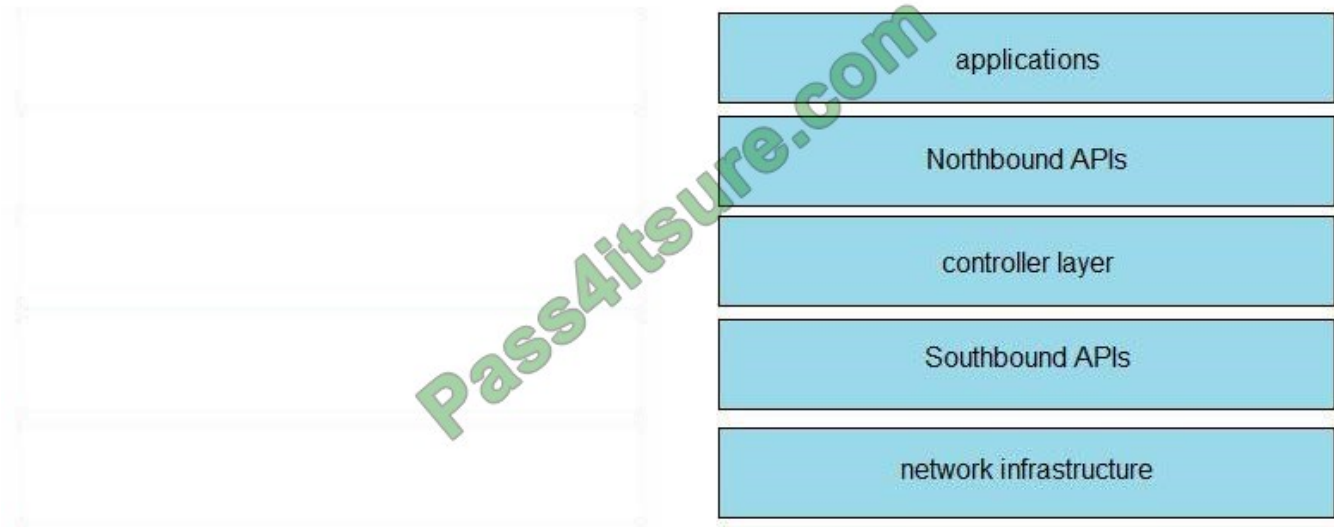
Answer Area

Southbound APIs	5
Northbound APIs	4
applications	3
controller layer	2
network infrastructure	1

Correct Answer:



Answer Area



QUESTION 7

Which two statements about SPAN and RSPAN are true? (Choose two.)

- A. Only RSPAN sends monitored traffic to a dedicated VLAN.
- B. Only RSPAN is limited to monitoring VLANs.
- C. Only SPAN is limited to monitoring switch ports.
- D. Only RSPAN can monitor extended VLANs.
- E. Only SPAN sends monitored traffic to a local physical port.

Correct Answer: DE

QUESTION 8

What does the DIS on a LAN periodically transmit in multicast to ensure that the IS-IS link-state database is accurate?

- A. ISH
- B. CSNP
- C. IIH
- D. PSNP
- E. LIP



Correct Answer: B

QUESTION 9

Ping and Traceroute extended options are very useful. Which difference between using the Record option with the ping command vs. the traceroute command is true?

- A. When leveraged with the ping command, the Record option of this command not only informs you of the hops that the echo request (ping) went through to get to the destination, but is also informs you of the hops if visited on the return path.
- B. When leveraged with the traceroute command, the Record option of this command not only informs you of the hops that the echo request (ping) went through to get to the destination, but is also informs you of the hops if visited on the return path.
- C. The record option is not supported with the traceroute command.
- D. The record option is not supported with the ping command.

Correct Answer: A

Reference: <https://www.cisco.com/c/en/us/support/docs/ip/routing-information-protocol-rip/13730-ext-ping-trace.pdf>

QUESTION 10

Which statement about the BGP scope of the cost community is true?

- A. It is shared with IBGP neighbors only.
- B. It is shared with EBGP neighbors only.
- C. It is shared with IBGP and confederation peers.
- D. It is shared with IBGP and EBGP neighbors.
- E. It is shared with IBGP neighbors and route reflectors.

Correct Answer: C

QUESTION 11

Which two statements about IANA-reserved addresses are true? (Choose two.)

- A. The prefix FF3x::/32 is reserved for source-specific multicast on IPv6.
- B. The prefix FF9::/32 is reserved for source-specific multicast on IPv6.
- C. The address range 232.0.0.0/8 is reserved for source-specific multicast on IPv4.
- D. The address range 239.0.0.0/8 is reserved for source-specific multicast on IPv4.



E. The prefix FF00::/32 is reserved for source-specific multicast on IPv6.

F. The address range 225.0.0.0/8 is reserved for source-specific multicast on IPv4.

Correct Answer: AC

QUESTION 12

What is a potential effect of combining TCP traffic and UDP traffic in a single traffic queue?

A. UDP traffic can start dominating over TCP traffic.

B. This configuration will be rejected as invalid.

C. TCP and UDP flows would be scheduled fairly.

D. UDP starvation can occur

Correct Answer: A

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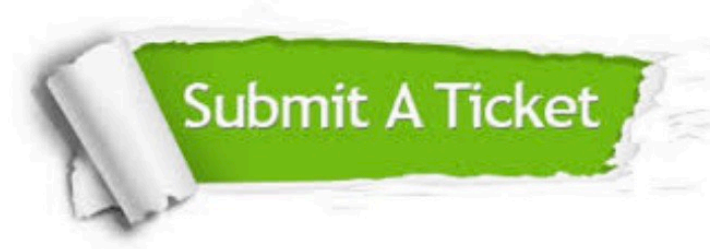
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