

# 350-501<sup>Q&As</sup>

Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR)

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### QUESTION 1

In a L2VPN service, customer CE sends frames to PE1 using a CoS marking value of 3. However, the remote CE receives those frames from PE2 with a CoS marking value of 0. Which description of this behavior is true?

- A. Egress PE2 is not configured with an outbound policy-map facing CE2 to preserve CoS marking
- B. Egress PE2 is marking EXP 0 upon label imposition
- C. Egress PE2 is not configured with mpls Ldp explicit-null command
- D. Ingress PE1 is remarking the CoS frame received from CE1 with value of 0

Correct Answer: D

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### QUESTION 2

Refer to the exhibit.

```
interface gigabitethernet 0/2 no ip directed-broadcast
```

Which type of DDoS attack will be mitigated by this configuration?

- A. SYN flood
- B. smurf attack
- C. SIP INVITE flood attacks
- D. teardrop attack

Correct Answer: B

---

### QUESTION 3

How do intent APIs make it easier for network engineers to deploy and manage networks?

- A. They pull stored SNMP data from a single network location to multiple monitoring tools.
- B. They allow the engineer to use a single interface as the entry point for control access to the entire device.
- C. They streamline repetitive workflows and support more efficient implementation.
- D. They extend the Layer 2 infrastructure and reduce the necessary number of virtual connections to Layer 3 devices.

Correct Answer: B

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#### QUESTION 4

```
Notification host: 192.168.101.1  udp-port: 162  type: trap
user: community1  security model: v1
```

Refer to the exhibit. Over the last few months, ISP A has doubled its user base. The IT Director asked the engineering team to monitor memory consumption and buffer statistics on all P and PE devices in the MPLS core. Most devices have CPU usage of 70% or more, so the solution must be targeted and secure. Which two commands must the engineering team implement on P and PE devices to meet these requirements? (Choose two.)

- A. snmp-server enable traps memory bufferpeak
- B. snmp-server host 192.168.101.1 version 1 community1 auth memory
- C. snmp-server enable snmp-traps community1 bufferpeak
- D. snmp-server host 192.168.101.1 version 2c community1 memory
- E. snmp-server host 192.168.101.1 version 3 auth community1 memory

Correct Answer: AB

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#### QUESTION 5

Refer to the exhibit

```

PE-A#show ip bgp vpnv4 vrf Customer-A neighbors 10.10.10.2 routes
BGP table version is 13148019, local router ID is 10.10.10.10
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
               r RIB-failure, S Stale, m multipath, b backup-path, f RT-Filter,
               x best-external, a additional-path, c RIB-compressed,
Origin codes: i - IGP, e - EGP, ? - incomplete
RPKI validation codes: V valid, I invalid, N Not found

   Network          Next Hop          Metric LocPrf Weight Path
Route Distinguisher: 65000:1111 (default for vrf Customer-A)
*>  192.168.0/19    10.10.10.2        0         0 4282 65001 ?
*>  192.168.0/17    10.10.10.2        0         0 4282 65001 ?
*>  192.168.0/16    10.10.10.2        0         0 4282 65001 ?

Total number of prefixes 5

PE-A#config t
Enter configuration commands, one per line. End with CNTL/Z.
PE-A(config)#ip prefix-list ALLOW permit 192.168.0.0/16 ge 17 le 19
PE-A(config)#router bgp 65000
PE-A(config-router)#address-family ipv4 vrf Customer-A
PE-A(config-router-af)#neighbor 10.10.10.2 prefix-list ALLOW in

```

Which three outcomes occur if the prefix list is added to the neighbor? (Choose three.)

- A. 192.168.0.0/16 is denied.
- B. 192.168.0.0/16 is permitted.
- C. 192.168.0.0/19 is permitted
- D. 192.168.0.0/19 is denied.
- E. 192.168.0.0/17 is permitted
- F. 192.168.0.0/17 is denied.

Correct Answer: ACE

192.168.0.0/16 is denied. 192.168.0.0/19 is permitted 192.168.0.0/17 is permitted

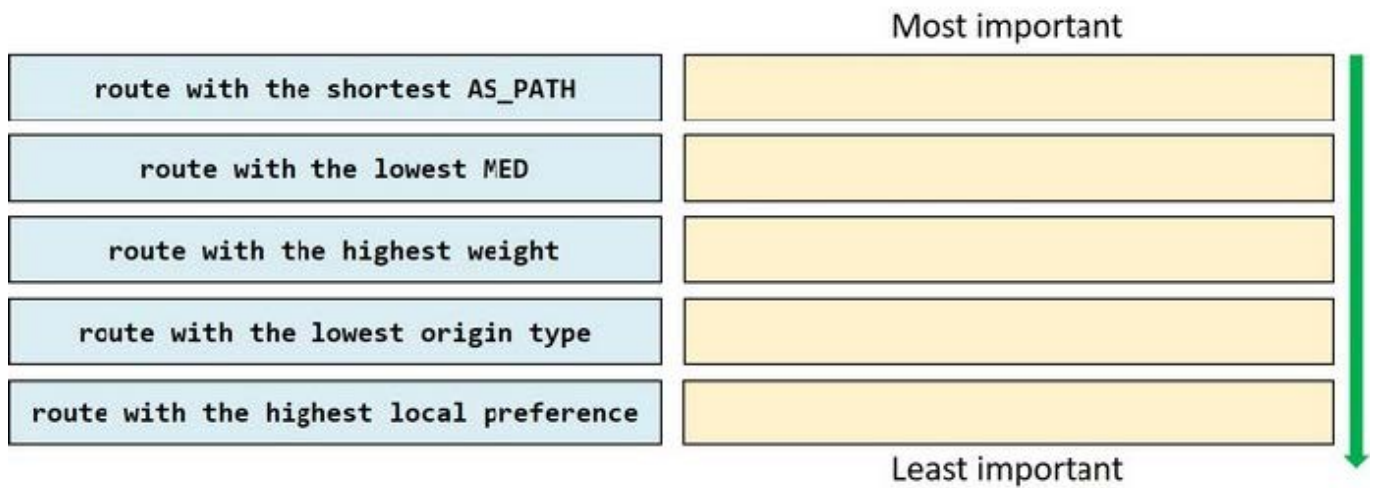
E: 192.168.0.0/17 is permitted as it matches the statement "greater or EQUAL 17", so it's a match and it terminates in the "permits" statement of the ALLOW prefix list

## QUESTION 6

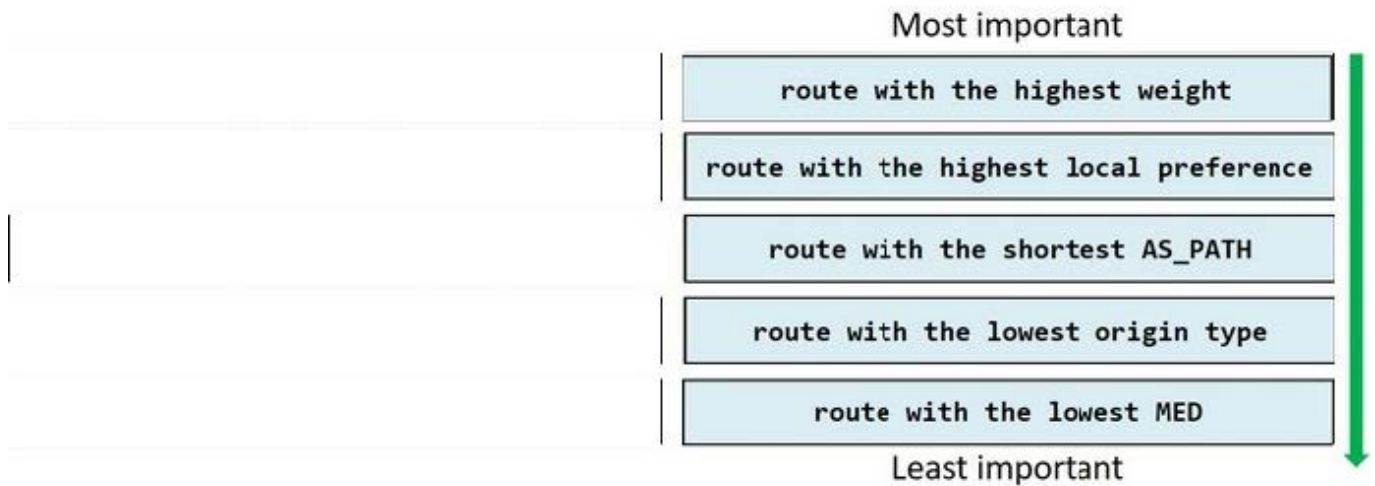
DRAG DROP

Drag and drop the BGP Best Path Algorithm rules from the left into the corresponding order of importance on the right.

Select and Place:



Correct Answer:



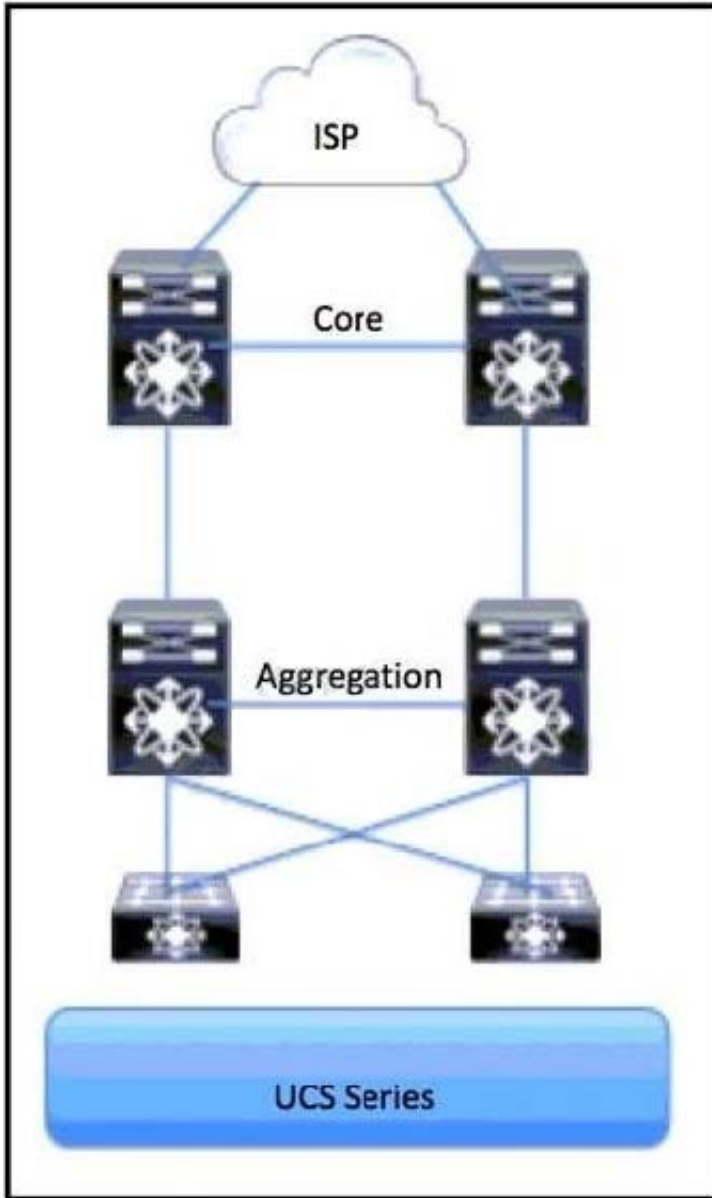
### QUESTION 7

What statement is true?

- A. Link Control Protocol (LCP) is used for denying PPP connections to unauthorized devices.
- B. Link Control Protocol (LCP) is used for basic PPP link setup and operation
- C. Link Control Protocol (LCP) for PPP is synonymous to ARP for Ethernet.
- D. None of the above.

Correct Answer: B

### QUESTION 8



Refer to the exhibit. Which part of the diagram will host OpenStack components?

- A. UCS Series
- B. Aggregation
- C. Access
- D. Core

Correct Answer: A

#### QUESTION 9

Refer to the exhibit.

```
R1# configure terminalR1(config)# router isis area2R1(config-router)# metric-style wide level-1
```

An engineer is configuring multi-topology IS-IS for IPv6 on router R1. Which additional configuration must be applied to complete the task?

A. R1# configure terminalR1(config)# router isis area2 R1(config-router)# address-family ipv6R1(config-router-af)# multi-topology

B. R1# configure terminalR1(config)# router isis area1 R1(config-router)# metric-style wide level-2R1(config-router)# address-family ipv6R1(config-router-af)# multi-topology

C. R1# configure terminalR1(config)# router isis area2 R1(config-router)# metric-style wideR1(config-router)# address-family ipv6R1(config-router-af)# multi topology

D. R1# configure terminal

```
R1(config)# router isis area1
```

```
R1(config-router)# metric-style wide level-1
```

```
R1(config-router)# address-family ipv6
```

```
R1(config-router-af)# multi topology
```

Correct Answer: A

Reference: [https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute\\_isis/configuration/15-mt/irs-15-mt-book/ip6-route-multi-isis.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_isis/configuration/15-mt/irs-15-mt-book/ip6-route-multi-isis.html)

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## QUESTION 10

According to RFC5305 on IS-IS extensions for traffic engineering, what is the 4-octet sub-TLV type 10 of extended IS-IS reachability TLV type 22?

A. TE default metric

B. maximum reservable link bandwidth

C. administrative group (color)

D. IPv4 neighbor address

Correct Answer: B

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## QUESTION 11

How does an untrusted interface at the boundary of an administrative domain handle incoming packets?

A. It remarks all values to a CoS of 0.

B. It forwards only traffic with a DSCP value of 48.

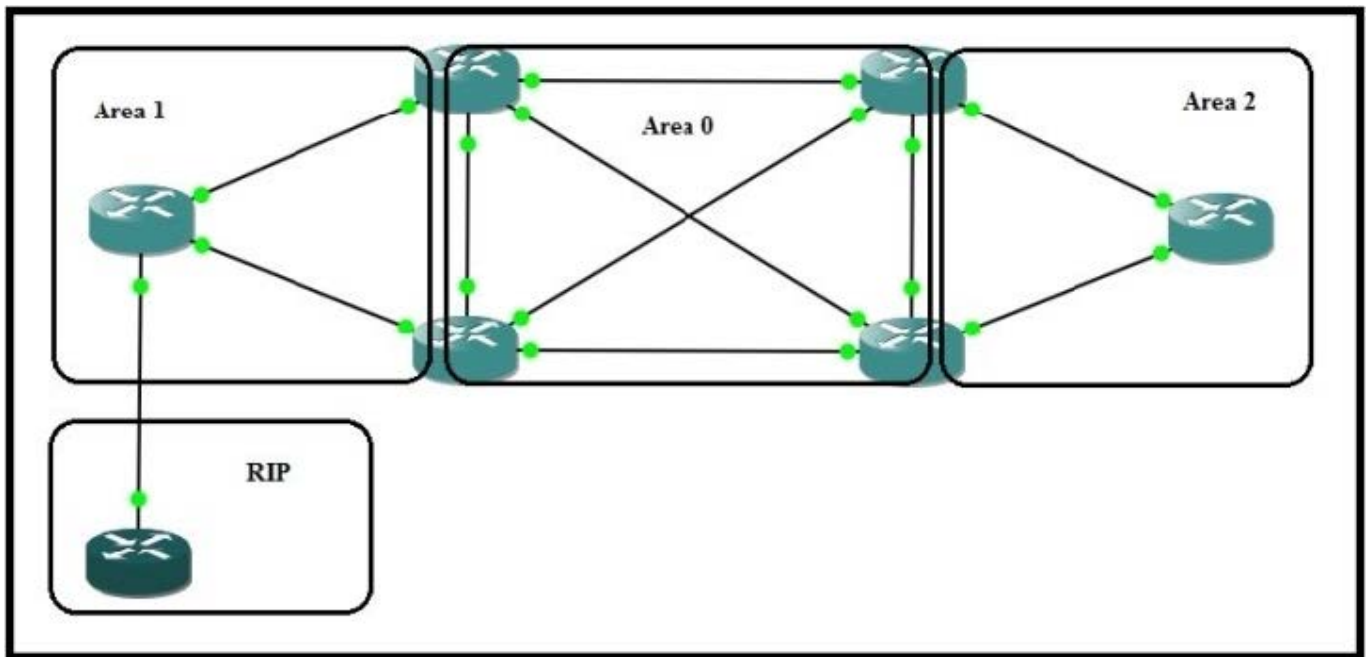
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- C. It translates the IP precedence value to the corresponding DSCP value.
- D. It drops all traffic ingressing the network.

Correct Answer: A

**QUESTION 12**

Refer to the exhibit.



RIP network 192.168.1.0/24 is redistributed in OSPF Area 1; both Area 1 and Area 2 are configured as NSSAs.

Which three statements describe the OSPF behavior in this scenario? (Choose three.)

- A. Area 2 does not see the network 192.168.1.0/24 in its link-state database.
- B. Network 192.168.1.0/24 is advertised in a Type 7 LSA in Area 1.
- C. Network 192.168.1.0/24 is advertised in a Type 5 LSA in Area 0.
- D. Network 192.168.1.0/24 is advertised in a Type 7 LSA in Area 0.
- E. ABR between Area 0 and Area 2 converts network 192.168.1.0/24 to a Type 7 LSA.
- F. Network 192.168.1.0/24 is advertised in a Type 5 LSA in Area 2.

Correct Answer: ABC

**QUESTION 13**



Refer to the exhibit.

```
configure
policy-map ciscopolicy
  class ciscotest
    set precedence 1
  exit
exit
interface pos 0/2/0/0
  service-policy output ciscopolicy
commit
```

An engineer needs to implement this QoS policy on customer's network due to ongoing slow network issues.

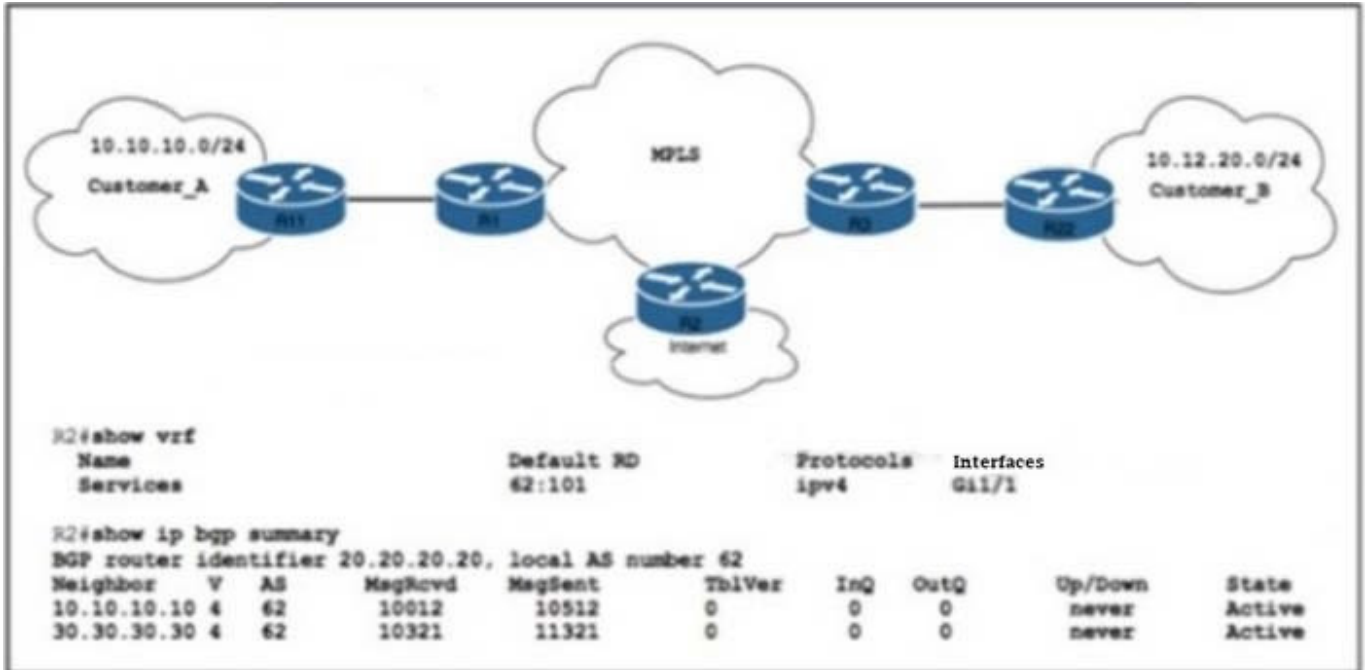
What will be the effect on the network when the engineer implements this configuration?

- A. Traffic that is identified in the ciscotest class map will be remarked from IP precedence 1 to DSCP AF11 when it enters the pos0/2/0/0 interface.
- B. Traffic that is identified in the ciscopolicy class map will be marked with IP precedence 1 when it enters the pos0/2/0/0 interface.
- C. Traffic that is identified in the ciscopolicy class map will be remarked from IP precedence 1 to DSCP AF11 when it exits the pos0/2/0/0 interface.
- D. Traffic that is identified in the ciscotest class map will be marked with IP precedence 1 when it exits the pos0/2/0/0 interface.

Correct Answer: D

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#### QUESTION 14



Refer to the exhibit. ISP\_A is about to launch a new internet service. ISP\_A is already providing MPLS VPN Layer 3 services to Customer\_A and Customer\_B, which are connected to ISP\_A via OSPF. A network engineer completed the BGP and VRF configurations on R2 to support the new internet service. Which additional action completed the launch?

- A. Implement the BGP routing protocol in the customer VRFs on R1 and R2
- B. Import route-target 62:101 into the customer VRFs on R1 and R3.
- C. Enable the route-replicate command under the customer VRFs on R1 and R2
- D. Activate NAT CE in the customer VRFs on R1, R2, and R3.

Correct Answer: A

**QUESTION 15**

```

GET https://192.168.201.10/api/class/aaaUser.json?
    query-target-filter=eq(aaaUser.lastName,"CiscoTest")
    
```

Refer to the exhibit. An engineer configured several network devices to run REST APIs. After testing, the organization plans to use REST APIs throughout the network to manage the network more efficiently. What is the effect if this script?

- A. It returns an AAA users with the last name CiscoTest.
- B. It creates a class map named aauser with traffic tagged from AAA.
- C. It queries the local database to find a user named aaaUser.Json

D. It adds the user CiscoTest to the AAA database located at 192.168.201.10.

Correct Answer: A

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