



# 642-887<sup>Q&As</sup>

Implementing Cisco Service Provider Next-Generation Core Network Services

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### QUESTION 1

Only based on the Cisco IOS XR policy-map configuration exhibit,

```
policy-map policy_A
class test
bandwidth 1000000
random-detect dscp AF11 10000 20000
random-detect dscp AF41 12000 24000
```

which statement is correct?

- A. All DSCP AF41 marked packets will be dropped when the average queue length reaches 12,000 packets.
- B. DSCP AF11 marked packets will be randomly dropped when the average queue length reaches 10,000 packets.
- C. DSCP AF11 and AF41 marked packets are guaranteed a minimum bandwidth of 1 Mb/s.
- D. DSCP AF11 and AF41 marked packets are guaranteed a maximum bandwidth of 1 Mb/s.

Correct Answer: B

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### QUESTION 2

Refer to the exhibit.

**MPLS\_Router\_A**

```
Interface Gi 0/0/0
"link to MPLS_PE_C"
mpls ip

Interface Gi 0/0/1
"Link facing customer_A CE"
IP access-group X in

!
mpls ldp advertise-labels for 80 to 81

!
access-list 80 permit 10.100.0.0 0.0.0.255
access-list 81 permit any

ip access-list X deny top any any eq 646
ip access-list X permit ip any any
```

You are about to implement security features, including this configuration, within the MPLS network of a large MPLS service provider. How does the router distribute the labels to its neighbors?

- A. All network 10.100.0.0/24 labels are sent to all TDP neighbors
- B. All network 10.100.0.0/16 labels are sent to all LDP neighbors
- C. All network 10.100.0.0/24 labels are sent to all LDP neighbors
- D. All network 10.100.0.0/24 labels are sent to all LDP and TDP neighbors

Correct Answer: C

**QUESTION 3**

Refer to the partial Cisco IOS XR configurations exhibit for Router 1 and Router 2.



```
RP/0/RP0/CPU0:Router1#show running-config mpls ldp

mpls ldp
router-id 33.33.33.33
log
 adjacency
 !
 interface GigabitEthernet0/2/0/6
 !

RP/0/RP1/CPU0:Router2#show running-config mpls ldp

mpls ldp
router-id 10.12.0.3
log
 neighbor
 !
 interface GigabitEthernet0/0/2/2
 !

RP/0/RP0/CPU0:Router1#show running-config router ospf

router ospf test
area 0
 interface Loopback7
 passive enable
 !

RP/0/RP1/CPU0:Router2#show running-config router ospf

router ospf test
area 0
 interface Loopback0
 passive enable
 !
 interface GigabitEthernet0/0/2/2
 !
```

There are two routers that are connected back to back over the Gigabit Ethernet link. If the "show mpls ldp neighbor" command output on Router 1 does not show LDP peering with Router 2, what could be the possible root cause of the LDP peering problem?

- A. missing interface under OSPF IGP configuration
- B. hello timers mismatch on Router 1 and Router 2
- C. password for LDP session mismatch on Router 1 and Router 2
- D. MPLS LDP session protection is not configured

Correct Answer: A



#### QUESTION 4

Which Cisco IOS XR command should be used in order to enable LDP on all interfaces for which the IGP protocol is enabled?

- A. RP/0/0/CPU0:R1(config-ospf)#mpls ldp auto-config
- B. RP/0/0/CPU0:R1(config-ospf)#mpls ldp interface all enable
- C. RP/0/0/CPU0:R1(config-ospf)#enable all
- D. RP/0/0/CPU0:R1(config-ldp)#enable all

Correct Answer: A

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#### QUESTION 5

With unmanaged CE routers, at which point in the service provider network is the QoS trust boundary, and what is required at the trust boundary?

- A. between the CE and PE router and mapping of the customer traffic classes into the service provider traffic classes at the PE router ingress
- B. between the CE and PE router and trusting the QoS markings from the CE router and applying the required QoS mechanisms based on the customer QoS markings
- C. between the PE and the P router and mapping of the customer traffic classes into the service provider traffic classes at the P router ingress
- D. between the PE and P router and trusting the QoS markings from the CE router and applying the required QoS mechanisms based on the customer QoS markings
- E. between the customer network and the CE router ingress and applying the required egress QoS policy on the CE router

Correct Answer: A

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