

# 100% Money Back Guarantee

**Vendor:** Cisco

**Exam Code:** 642-887

**Exam Name:** Implementing Cisco Service Provider Next-Generation Core Network Services

**Version:** Demo

### QUESTION 1

An engineer is allocating a determined amount of bandwidth to a customer Cisco MPLS TE tunnel to guarantee its availability on a 24/7 SLA type. Which option must be configured to make sure the customer is able to use the bandwidth agreed on the SLA?

- A. RSVP that guarantees bandwidth availability end-to-end
- B. Cisco MPLS TE tunnel to signal the bandwidth required
- C. a QoS policy to reinforce the RSVP bandwidth reservation
- D. overprovisioning to guarantee bandwidth

**Correct Answer: C**

### QUESTION 2

Which Cisco IOS XR high-availability feature is used to prevent routes from being used before LDP converges?

- A. LDP session protection
- B. LDP-IGP synchronization
- C. BFD
- D. IGP session protection

**Correct Answer: B**

### QUESTION 3

On the Cisco ASR9K router, when using the bandwidth command to specify the minimum guaranteed bandwidth to be allocated for a specific class of traffic, what will be used as the queuing algorithm?

- A. custom queuing
- B. CBWFQ
- C. WFQ
- D. FIFO
- E. priority queuing

**Correct Answer: B**

### QUESTION 4

A DSCP value of 41 in decimal corresponds to which IP precedence value?

- A. 3 ?Flash
- B. 4 ?Flash Override
- C. 5 ?Critical
- D. 6 ?Internet Control
- E. 7 ?Network Control

**Correct Answer: C**

### QUESTION 5

An engineer has been tasked to configure a guaranteed 2 Mbps of bandwidth for outgoing FTP traffic on interface FastEthernet 1/1/1 on Cisco IOS XR. Which method accomplishes this configuration?

- A. 

```
configure terminal
class-map FTP_CLASS
match protocol ftp
exit
policy-map POLICY_1
class FTP_CLASS
```

```
bandwidth 2000
exit
exit
interface FastEthernet 1/1/1
service-policy output POLICY_1
end
commit
```

- B. configure terminal  
class-map FTP\_CLASS  
match protocol ftp  
exit  
policy-map POLICY\_1  
class FTP\_CLASS  
bandwidth 2000000  
exit  
exit  
interface FastEthernet 1/1/1  
service-policy input POLICY\_1  
end  
commit
- C. configure terminal  
access-list 100 permit ip any any eq 21  
policy-map POLICY\_1  
match ip access-list 100  
bandwidth 2000  
exit  
exit  
interface FastEthernet 1/1/1  
service-policy output POLICY\_1  
end  
commit
- D. configure terminal  
policy-map POLICY\_1  
class FTP\_CLASS  
match protocol ftp  
bandwidth 2000000  
exit  
exit  
interface FastEthernet 1/1/1  
service-policy input POLICY\_1  
end  
commit

**Correct Answer:** A

#### QUESTION 6

Which three mechanisms are used to implement MPLS TE? (Choose three.)

- A. tunnel interface
- B. CSPF
- C. RSVP
- D. LDP
- E. MP-BGP

**Correct Answer:** ABC

#### QUESTION 7

Which are typical class-based marking policies that are implemented on service provider IP NGN PE routers?

- A. On the PE ingress, classify the customer traffic and then mark with qos-group. On the PE egress,

classify based on the qos-group and then mark with mpls exp.

- B. On the PE ingress, classify the customer traffic and then mark with mpls exp. On the PE egress, classify based on the mpls exp and then mark with qos-group.
- C. On the PE ingress, trust the customer QoS markings. On the PE egress, classify based on the customer QoS markings and then mark with qos-group.
- D. On the PE ingress, trust the customer QoS markings. On the PE egress, classify based on the customer QoS markings and then mark with mpls exp.

**Correct Answer:** A

**QUESTION 8**

A network engineer must analyze RSVP-TE signaling on a syslog server. Which three RSVP messages are valid? (Choose three.)

- A. RSVP PATH
- B. RSVP RESERVATION
- C. RSVP ESTABLISHED
- D. RSVP PATH TEAR
- E. RSVP KILL
- F. RSVP INIT

**Correct Answer:** ABD

**QUESTION 9**

Which configuration fulfills the requirement of configuring LDP with Cisco Nonstop Forwarding on a router with 5 minutes time to hold the forwarding table information and 1 minute retry timer value for an LDP connection?

- A. 

```
mpls ldp
 graceful-restart
 graceful-restart forwarding state-holdtime 5
 graceful-restart reconnect-timeout 1
 interface GigabitEthernet0/0/0/0
 !
```
- B. 

```
mpls ldp
 graceful-restart
 graceful-restart forwarding state-holdtime 300
 graceful-restart reconnect-timeout 60
 interface GigabitEthernet0/0/0/0
 !
```
- C. 

```
mpls ldp
 nsr
 graceful-restart
 graceful-restart forwarding state-holdtime 300
 graceful-restart reconnect-timeout 60
 interface GigabitEthernet0/0/0/0
 !
```
- D. 

```
mpls ldp
 nsr
 graceful-restart
 graceful-restart forwarding state-holdtime 5
 graceful-restart reconnect-timeout 1
 interface GigabitEthernet0/0/0/0
 !
```

**Correct Answer:** B

**QUESTION 10**

Which three fields must be the same in an IPv6 header to consider different packets on the same flow? (Choose three.)

- A. source port
- B. destination address
- C. destination port
- D. source address
- E. flow label
- F. transport protocol type

**Correct Answer:** BDE

**QUESTION 11**

Cisco MPLS TE resource attributes that are configured locally for each link are distributed to the headend router of the traffic engineering tunnel using which protocol?

- A. BGP
- B. MP-BGP
- C. LDP
- D. RSVP
- E. OSPF or IS-IS with TE extension

**Correct Answer:** E

**QUESTION 12**

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

**QUESTION 13**

The regional operation center deploys a Cisco MPLS TE tunnel over the company's core network. The Cisco MPLS TE tunnel is up and no error is detected, but no traffic is traversing the tunnel. Which two issues are possible causes? (Choose two.)

- A. The provider edge router is not performing the correct redistribution.
- B. The interior gateway protocol has no knowledge of the Cisco MPLS TE tunnel.
- C. No static route has been defined to route data traffic over the Cisco MPLS TE tunnel.
- D. The customer edge router is injecting rogue IPv4 prefixes in the provider edge routing table.
- E. The end-to-end label switched path has not been established.

**Correct Answer:** BC

**QUESTION 14**

An engineer has been tasked to configure a guaranteed 10 Mbps priority queue for traffic matched by class-map VOICE\_CLASS on Cisco IOS XR. Which policy must be applied for outgoing traffic on interface FastEthernet 0/0/1?

- A. 

```
configure
policy-map VOICE_POLICY
class VOICE_CLASS
police rate 10000
exceed-action drop
exit
priority level 1
```

- ```
exit
exit
interface FastEthernet 0/0/1
service-policy output VOICE_POLICY
commit
```
- B. configure
- ```
policy-map VOICE_POLICY
class VOICE_CLASS
priority percent 10
exit
exit
interface FastEthernet 0/0/1
service-policy output VOICE_POLICY
commit
```
- C. configure
- ```
policy-map VOICE_POLICY
class VOICE_CLASS
police rate 1000
exceed-action drop
exit
priority level 1
exit
exit
interface FastEthernet 0/0/1
service-policy output VOICE_POLICY
commit
```
- D. configure
- ```
policy-map VOICE_POLICY
class VOICE_CLASS
police rate 10 Mbps
exceed-action shape
exit
priority level 1
exit
exit
interface FastEthernet 0/0/1
service-policy output VOICE_POLICY
commit
```

**Correct Answer:** A

#### QUESTION 15

Which two features are used to provide Cisco MPLS TE node and link protection? (Choose two.)

- A. autoroute
- B. fast reroute
- C. backup tunnels
- D. BFD

**Correct Answer:** BC

#### QUESTION 16

On the Cisco IOS XR, when using the match protocol command within a class-map to classify traffic, you noticed that the match protocol option on the Cisco IOS XR shows much fewer protocol options than on the Cisco IOS or IOS XE, like there is no option such as the match protocol yahoo-messenger command on the Cisco IOS XR. Why is this?

- A. because the Cisco IOS XR router does not have the correct software packages installed
- B. because when defining the class-map, the class-map type should be set to type inspect:  
class-map type inspect class-map-name command
- C. because NBAR is not supported on the Cisco IOS XR

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