



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

Implementing Cisco Service Provider Next-Generation Core Network Services

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### QUESTION 1

Scenario: On CE 7 router, which statement is correct regarding the "QOS-POLICY policy map configurations?



**Instructions**

Enter the proper CLI commands and analysis the outputs on the Cisco routers to answer the multiple-choice questions.

From the network topology diagram, click on the router icon to gain access to the console of the router.

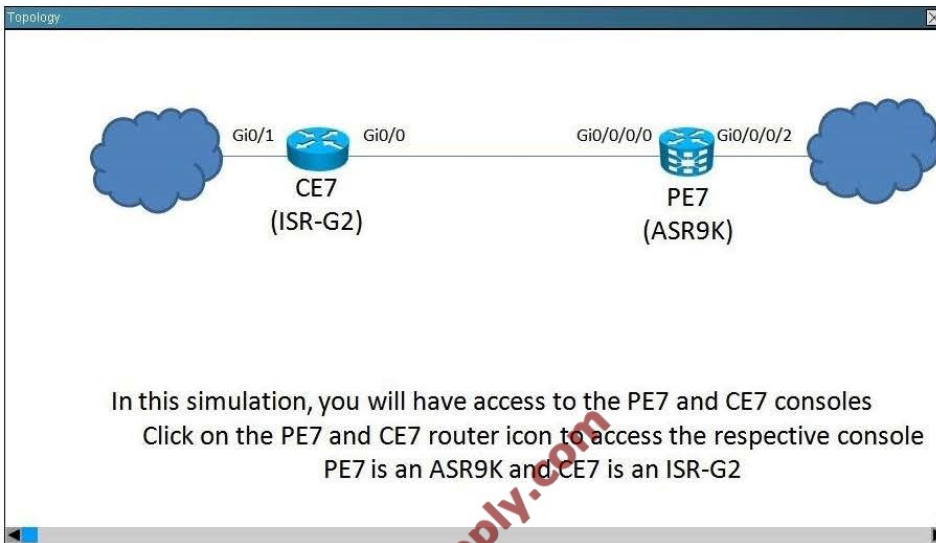
No console or enable passwords are required.

There are four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

Not all the CLI commands or commands options are supported or required for this simulation. All the devices in this simulation have been pre-configured and you are not required to enter in any configurations.

**Scenario**

Referring to the network topology diagram shown in the exhibit, use the proper CLI commands on the CE7 and PE7 routers and interpret the supported CLI commands outputs to answer the four multiple choice questions.



**CE7**

```
CE7#
```

**RP/0/RSP0/CPU0:PE7**

```
RP/0/RSP0/CPU0:PE7#
```



- A. Traffic matched by the "QOS-HTTP-1" class-map is shaped to an average rate of 2560000 128000bps
- B. Traffic matched by the "QOS1-HTTP-2" class-map will be queued in the low-latency-queue which has a maximum bandwidth guarantee of 64000
- C. Traffic matched by the "QOS-FTP-1" class-map can't use more than 256 Kbps under any condition
- D. The "QOS-POLICY" is applied to the gi0/0 interface in the input direction

Correct Answer: C

# show policy-map # show policy-map interface x/y # show running-config policy-map

---

## QUESTION 2

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

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## QUESTION 3

Which option describes the IPv6 flow label field?

- A. a 3-bit field used for marking a traffic flow
- B. an 8-bit field used for labeling a traffic flow
- C. a 20-bit field used to tag a traffic flow throughout the network
- D. an 8-bit field out of which the first 6 are used to classify packets

Correct Answer: C

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## QUESTION 4

When implementing CBWFQ, where should Weighted Random Early Detection configuration be applied?

- A. route-map
- B. policy-map



- C. class-map
- D. service-policy

Correct Answer: B

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#### QUESTION 5

On Cisco routers, which three methods can be used to map traffic into the MPLS traffic engineering tunnel? (Choose three.)

- A. on-demand routing
- B. static routing
- C. optimized edge routing
- D. policy-based routing
- E. autoroute

Correct Answer: BDE

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#### QUESTION 6

Which option is the correct definition of the LB on a Cisco router?

- A. a table used by switching functions to forward labeled packets
- B. a table that holds the next hop for destination prefixes
- C. a label-based adjacency table
- D. a table that stores remote and local label bindings

Correct Answer: A

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#### QUESTION 7

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

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#### QUESTION 8

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 9

Which three conditions can occur when metering traffic using a dual token bucket traffic policing QoS mechanism on Cisco routers? (Choose three.)

- A. conform
- B. pass
- C. violate
- D. exceed
- E. burst
- F. matched

Correct Answer: ACD

---

#### QUESTION 10

An engineer is tasked to deploy Fast Reroute for Cisco MPLS TE. Which LSR is in charge to request the Fast Reroute capability along the LSP?

- A. point of local repair
- B. tail end router



- C. ingress and egress PE routers
- D. head-end router
- E. BGP routers acting as route reflectors

Correct Answer: D

#### QUESTION 11

Which two values must be specified in a Cisco NBAR configuration? (Choose two.)

- A. port number
- B. IP precedence
- C. neighbor discovery address
- D. CoS
- E. transport protocol

Correct Answer: AE

#### QUESTION 12

Refer to the Cisco IOS XR policy-map configuration exhibit.

```
policy-map test
!
class one
priority level 1
!
class two
priority level 2
!
class three
bandwidth percent 60
!
interface GigabitEthernet0/0/0/2
service-policy output test
!
```

What is wrong with the policy-map configuration?

- A. missing the priority percent command under class one and class two
- B. missing the police command under class one and class two
- C. missing the police command under class three



D. missing the priority bandwidth command under class one and class two

E. missing the bandwidth command under class one and class two

Correct Answer: B

Hierarchical policing is also supported. In such a configuration, both parent and child policies have class-maps

containing policing statements, as in the following example: ! policy-map child class gold police rate percent 50 conform-action set precedence immediate exceed-action drop ! ! policy-map parent class match\_all police rate 10000 kbps burst 15000 exceed-action drop service-policy child

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