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

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Implementing Cisco Service Provider Next-Generation Core Network Services

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**QUESTION 1**

Scenario: From PE8 router, what is the label action used to reach the P2 loopback 0 interface 10.0.2.1/32?

**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.

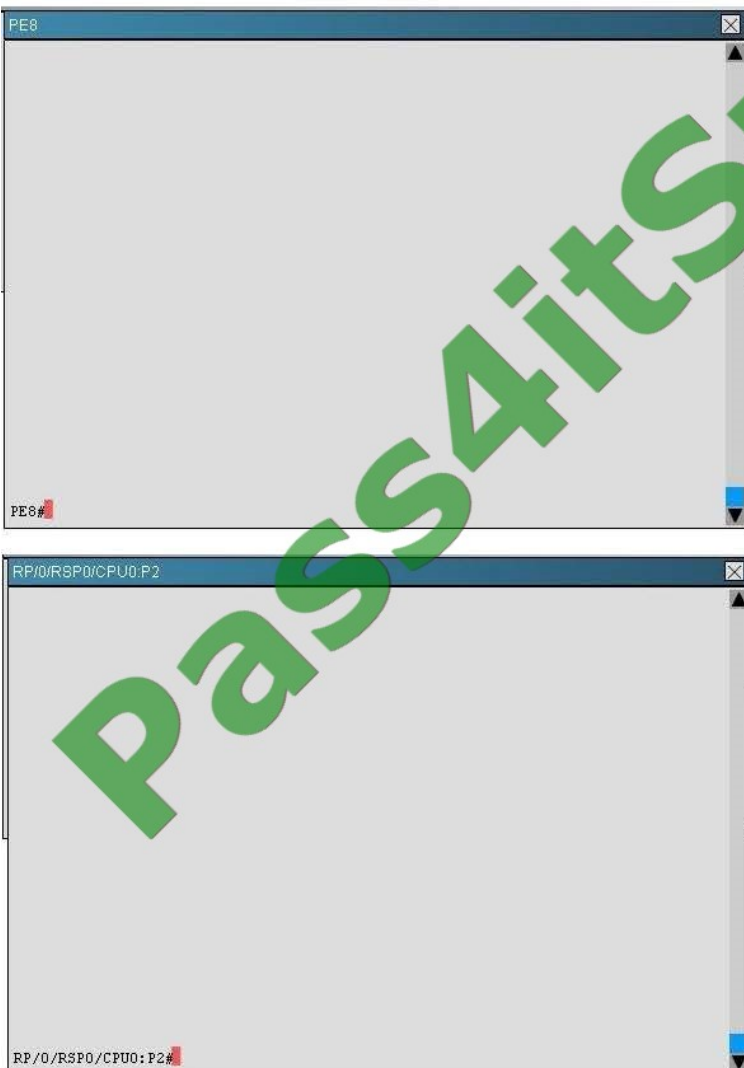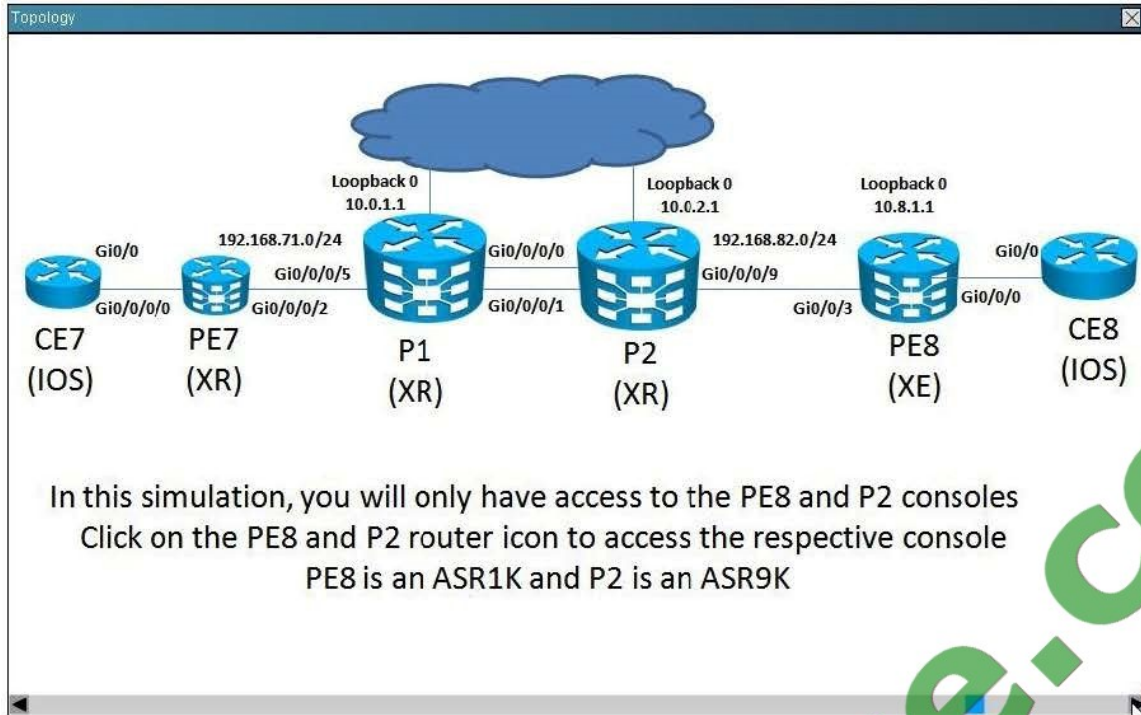Not all the CLI commands or commands options are supported or required for this simulation.

For example, the show running-config command is NOT supported in 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 PE8 and P2 routers and interpret the supported CLI commands outputs to answer the four multiple choice questions.

Topology

Loopback 0
10.0.1.1

Loopback 0
10.0.2.1

Loopback 0
10.8.1.1

Gi0/0

192.168.71.0/24

Gi0/0/0/0

192.168.82.0/24

Gi0/0

Gi0/0/0/5

Gi0/0/0/9

Gi0/0/0/0

Gi0/0/0/2

Gi0/0/0/1

Gi0/0/3

Gi0/0/0

CE7
(IOS)

PE7
(XR)

P1
(XR)

P2
(XR)

PE8
(XE)

CE8
(IOS)

In this simulation, you will only have access to the PE8 and P2 consoles
Click on the PE8 and P2 router icon to access the respective console
PE8 is an ASR1K and P2 is an ASR9K

PE8

PE8#

RP/0/RSP0/CPU0:P2

RP/0/RSP0/CPU0:P2#

A. Swap label 35 with label 16004

B. Push label 16004

C. Pop label 35

D. Pop label 16009

E. Push Label 16009

F. Swap label 35 with label 16009

Correct Answer: C

Explanation: show mpls forwarding-table , find prefix 10.0.2.1 and you will see there under outgoing Label "Pop Label" (This is actually logic because the prefix is directly connected and therefore the packet will forward without label). If the router should forward any packet to that prefix, the packet should be received with Local label on PE8 (Local Label = 35), the router will remove it and forward it without Label.

## QUESTION 2

An engineer wants to implement constraint-based routing. Which MPLS application should the engineer use?

A. unicast IP routing

B. MPLS VPN

C. MPLS TE

D. RSVP

Correct Answer: C

## QUESTION 3

At which layer does Cisco recommend the QoS trust boundary be set for an enterprise network environment?

A. core layer, facing the distribution layer

B. distribution layer, facing the access layer

C. access layer, facing the end hosts

D. distribution layer, facing the core layer

Correct Answer: C

## QUESTION 4

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 5**

Scenario: After reviewing present router configuration CE7 .which two statements are correct regarding behavior of the "IIq" policy-map? (Choose 2)

**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.
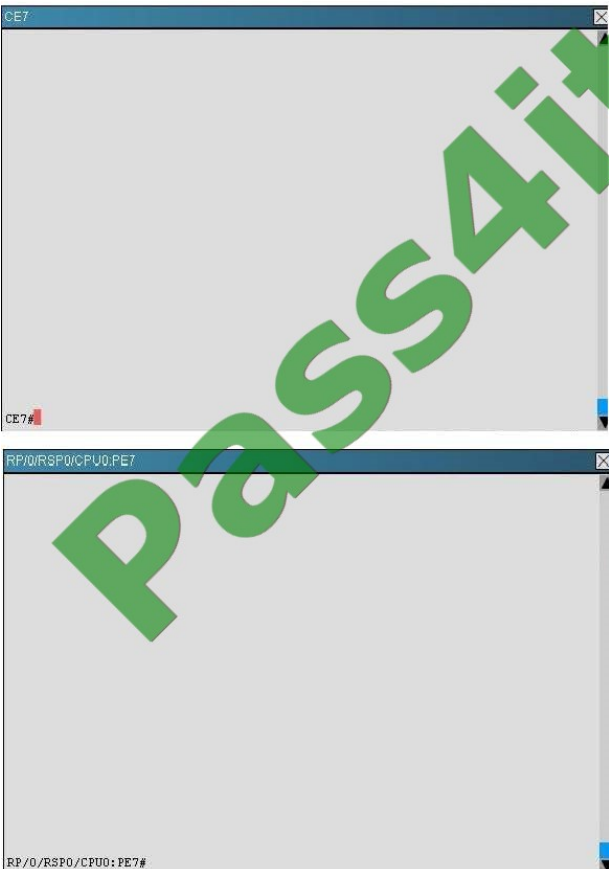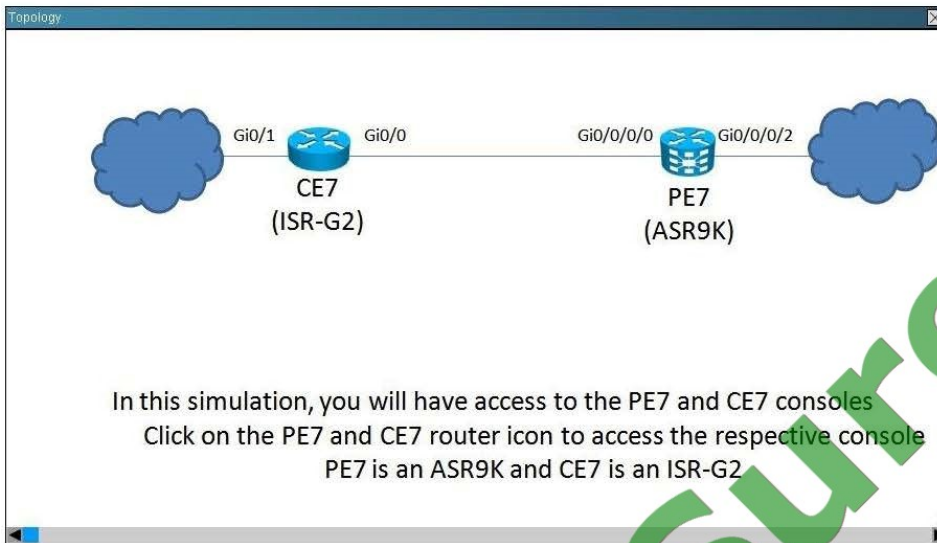
No console or enable passwords are required.

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.

**Topology**

Gi0/1    Gi0/0                Gi0/0/0/0    Gi0/0/0/2

CE7                          PE7
(ISR-G2)                     (ASR9K)

In this simulation, you will have access to the PE7 and CE7 consoles
Click on the PE7 and CE7 router icon to access the respective console
PE7 is an ASR9K and CE7 is an ISR-G2

**CE7**

CE7#

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

RP/0/RSP0/CPU0:PE7#

A. Traffic matched by the "cisco1" class-map will be assigned to the priority queue.

B. The "IIq" QoS policy is applied to the gi0/0 interface in the output direction

C. Traffic matched bythe"cisco2" class-map has a maximum bandwidth of 30%

D. Traffic matched bythe"cisco3" class-map has no priority and has a minimum bandwidth guarantee of 20%

E. There are no packets being matched by the "class-default" traffic class in the "IIq" policy

Correct Answer: AD

Explanation: You will notice that "cisco1" class map is assigned to the priority queue (the command is configured under policy-map IIq class cisco1 priority xxx) "cisco2" class map: is indeed configured using bandwidth 30%, however that

defines the minimum bandwidth but not the maximum.

"cisco3" class map: is indeed configured using "bandwidth 20%", No priority configured and that will define the minimum guaranteed bandwidth.

The last choice is wrong! check under "show policy-map interface" There are 4 or more packets being matched by the "class-default" traffic class in the "IIq" policy.

Class-map: class-default (match-any)

4 packets, 968 bytes

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