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**Vendor:**Cisco

**Exam Code:**642-887

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

**Version:**Demo

### QUESTION 1

Which statement is correct regarding the default MPLS TTL behavior?

- A. When an ingress edge LSR receives an IP packet, it will decrement the IP TTL field by 1; then it will set the MPLS Label TTL field to 255.
- B. When an ingress edge LSR receives an IP packet, it will decrement the IP TTL field by 1; then it will copy the decremented IP TTL field into the MPLS Label TTL field.
- C. When an ingress edge LSR receives an IP packet, it will just copy the IP TTL field into the MPLS Label TTL field.
- D. When an ingress edge LSR receives an IP packet, it will copy the IP TTL field into the MPLS Label TTL field first; then it will only decrement the MPLS Label TTL field by 1.
- E. When an ingress edge LSR receives an IP packet, it will copy the IP TTL field into the MPLS Label TTL field first; then it will only decrement the IP TTL field by 1.

Correct Answer: B

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### QUESTION 2

Which QoS technique can be used to protect customer traffic from being dropped by traffic rate limiting performed by the service provider?

- A. LLQ
- B. policing
- C. fair-queue
- D. shaping

Correct Answer: D

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### QUESTION 3

LDP session protection uses which one to maintain the LDP session between LDP neighbors?

- A. LDP NSF
- B. LDP NSR
- C. backup-targeted LDP hellos
- D. BFD
- E. LDP-IGP synchronization

Correct Answer: C

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#### QUESTION 4

An engineer is deploying CB-WRED across the entire core network to enforce the previously deployed CBWFQ and decides to change the WRED default to make it work with DSCP. Which policy-map command enables this new profile on regular Cisco IOS routers?

- A. random-detect
- B. random-detect dscp value
- C. random-detect dscp based
- D. random-detect precedence value

Correct Answer: C

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#### QUESTION 5

Which configuration set enables outbound label filtering so that only peer 192.168.10.1 receives label advertisements in an MPLS environment?

```
A. mpls ldp
    label
        accept
        for pfx_acl from 192.168.10.1

    ipv4 access-list pfx_acl
        10 permit ip host 10.0.0.0 any
    ipv4 access-list peer_acl
        10 permit ip host 192.168.10.1 any

B. mpls ldp
    label
        accept
        for peer_acl from 192.168.10.1

    ipv4 access-list pfx_acl
        10 permit ip any host 10.0.0.0
    ipv4 access-list peer_acl
        10 permit ip host 192.168.10.1 any

C. mpls ldp
    label
        advertise
        for pfx_acl to peer_acl
        interface TenGigabitEthernet3/1

    ipv4 access-list pfx_acl
        10 permit ip host 10.0.0.0 any
    ipv4 access-list peer_acl
        10 permit ip host 192.168.10.1 any

D. mpls ldp
    label
        advertise
        disable
        for pfx_acl to peer_acl
        interface TenGigabitEthernet3/1

    ipv4 access-list pfx_acl
        10 permit ip host 10.0.0.0 any
    ipv4 access-list peer_acl
        10 permit ip host 192.168.10.1 any
```

A. B. C. D.

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

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#### QUESTION 6

Which two options are true regarding the Pipe and Short Pipe MPLS tunneling models? (Choose two.)

- A. In Short Pipe mode QoS is done on the PE-to-CE link based on the customer's PHB markings
- B. In Pipe mode QoS is done on the PE-to-CE link based on the service provider's PHB markings
- C. In Pipe mode QoS is done on the PE-to-CE link based on the customer's PHB markings
- D. In Short Pipe mode QoS is done on the PE-to-CE link based on the service provider's PHB markings
- E. Short Pipe mode does not need MPLS usage, but Pipe mode does

Correct Answer: AB

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#### QUESTION 7

Which option describes what happens when a labelled packet with a TTL of 1 is received by an LSR?

- A. The packet is forwarded on to the next router where its TTL expires and from where an ICMP "time exceeded" message is generated and routed back to the source.
- B. The packet is dropped and an ICMP "time exceeded" message is IP routed back to the sender.
- C. The packet is dropped and an ICMP "time exceeded" message is label-switched from the expiring router back on a new path toward the source.
- D. The packet is dropped and an ICMP "time exceeded" message is label-switched from the expiring router on the same label switched path toward the destination and then back to the originating source.
- E. The packet is forwarded on to the next router where its TTL expires and from where an ICMP "time exceeded" message is generated and label switched back to the source.

Correct Answer: D

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#### QUESTION 8

Which four options are methods by which labels can be assigned in the label stack to an IP prefix? (Choose four.)

- A. LDP
- B. CEF
- C. BGP
- D. RSVP
- E. static

- F. IGP
- G. route recursion
- H. manual tagging

Correct Answer: ACDG

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#### QUESTION 9

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

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#### QUESTION 10

Which configuration can a network engineer use to establish high availability for LDP in an MPLS setup?

- A. mpls ldp graceful-restart graceful-restart graceful-restart forwarding state-holdtime 180 graceful-restart reconnect-timeout 15 interface HundredGigE0/4/0/0
- B. mpls ldp graceful-restart graceful-restart forwarding state-holdtime 180 graceful-restart reconnect-timeout 15
- C. mpls ldp session protection for peer\_acl duration 60 ipv4 access-list peer\_acl 10 permit ip host 192.168.10.1 any
- D. router ospf 1 mpls ldp sync mpls ldp igp sync delay 30
- E. mpls ldp router-id loopback0 discovery hello holdtime 15 discovery hello interval 5

Correct Answer: A

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#### QUESTION 11

A network operations center requests support to configure a Cisco MPLS TE tunnel on a Cisco IOS XR router. Which command sets a specific bandwidth required to the corresponding Cisco MPLS TE tunnel?

- A. rsvp interface interface-path-id bandwidth bandwidth
- B. interface tunnel-te tunnel\_id ! bandwidth bandwidth
- C. interface tunnel-te tunnel\_id ! signaled-bandwidth bandwidth
- D. mpls traffic-eng auto-bw collect frequency value !

Correct Answer: C

### QUESTION 12

Scenario: On P2IOS-XR router what is targeted LDP hellos hold time on LDP session with 10.0.1.1:0 LDP ID?

**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.

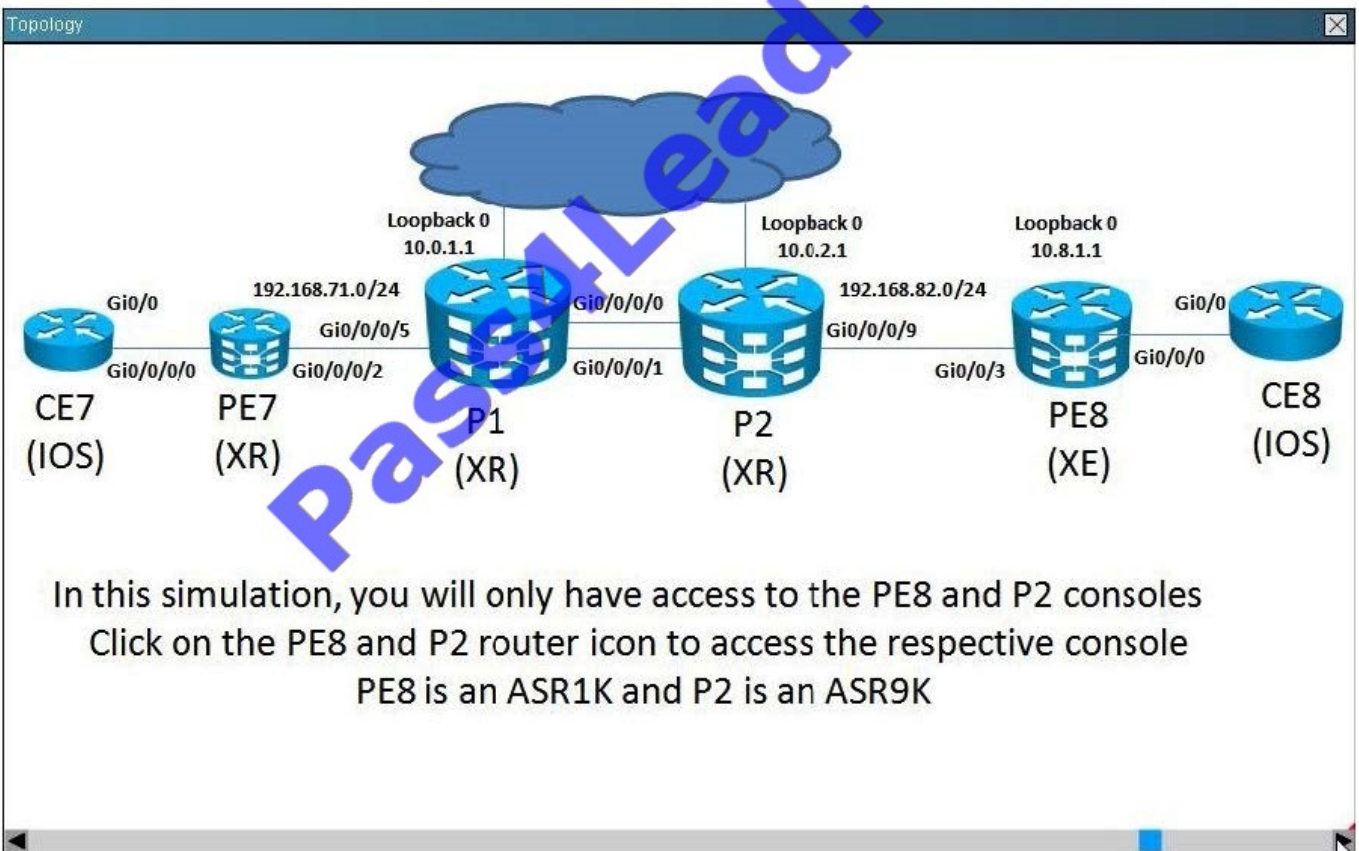
Not all the CLI commands or commands options are supported or required for this simulation.

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.



PE8



PE8#



RP/0/RSP0/CPU0:P2



RP/0/RSP0/CPU0:P2#



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A. 90 sec

B. 10 sec

C. 3 sec

D. 8.6 sec

Correct Answer: A

Explanation: Issue on P2: show mpls ldp discovery (details).

Ps: The command show mpls ldp parameter is not implemented. Look at the end, you will see the hello and the holdtime values for the target neighbour. Be careful he is asking for "targeted LDP hellos hold time". No other command will

work!!! At the end of the show result you will see something looks like the following:

LDP discovery sources:

Targeted Hello 10.0.2.1 -> 10.0.1.1 active, passive; Hello: 30 sec

holdtime: 90 sec

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