

## H31-161<sup>Q&As</sup>

HCIE-Carrier IP (Written) V2.0

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**QUESTION 1**

Which of the following statements about the working principle of LDP FRR are true?

- A. After LDP FRR is enabled, a backup LSP is generated both the primary and backup LSPs are stored in the forwarding table.
- B. LDP TFRR can be deployed on the ingress node and the intermediate node. The primary and backup LSPs are recorded in the ILM table on the intermediate node and on the FIB table on the ingress node.
- C. After LDP FRR enable, a backup can be generated for a primary LSP to prevent serious packet loss during flapping of the primary LSP.
- D. Multiple LSPs can be up on the ingress node, that is entries about multiple backup LSPs are generated in the forwarding table according to the priority of the FRR, implementing multi-layer protection.

Correct Answer: C

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**QUESTION 2**

The inner VLAN tag in layer 2 user packets is used to differentiate key services from other services. If packets are not processed after being encapsulated by QinQ, the 802.1p information of the inner VLAN tag becomes invalid. After the QinQ is employed, three methods can be used to configure conditions for sensing 802.1p configuration of the inner VLAN tag:

1.

Reset the 802.1p of the outer VLAN tag regardless of the existing 802.1p configurations of the inner VLAN tag.

2.

Automatically swap the 802.1p configurations of the inner VLAN tag to that of the outer VLAN tag.

3.

Reset the 802.1p configurations of the outer VLAN tag based on the existing 802.1p configurations of the different VLAN tags

A. True

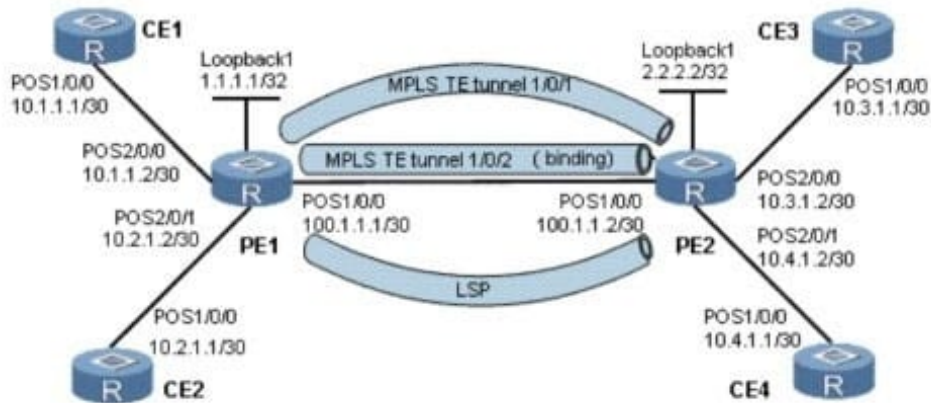
B. False

Correct Answer: A

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**QUESTION 3**

Refer to the exhibit.



This figure shows the MPLS L3VPN networking. CE 1 and CE 3 belong to VPN A. CE 2 and CE 4 belong to VPN B. Two MPLS TE tunnels (5 Mbit/s and 10 Mbit/s) and an LSP tunnel are set up between PE 1 and PE 2. It is expected that a tunnel policy is configured on PE 1 to distribute traffic in the three tunnels and MPLS TE tunnels are preferred. Configurations on PE

```
1: Configuration of PE 1 # sysname PE1 # ip vpn-instance vpna route-distinguisher 100:1 tnl-policy policy1 vpn-target 111:1 export-extcommunity vpn-target 111:1 import-extcommunity # ip vpn-instance vpnb route-distinguisher 100:2 tnl-policy policy2 vpn-target 222:2 export-extcommunity vpn-target 222:2 import-extcommunity # mpls lsr-id 1.1.1.1 mpls mpls te mpls rsvp-te
```

```
mpls te cspf
```

```
#
```

```
mpls ldp
```

```
# interface Pos1/0/0 link-protocol ppp
```

```
ip address 100.1.1.1 255.255.255.252
```

```
mpls
```

```
mpls te
```

```
mpls te max-link-bandwidth 20000
```

```
mpls te max-reservable-bandwidth 15000
```

```
mpls rsvp-te
```

```
mpls ldp
```

```
#
```

```
interface Pos2/0/0
```

```
link-protocol ppp
```

```
ip binding vpn-instance vpna
```

```
ip address 10.1.1.2 255.255.255.252
```

```
#
interface Pos2/0/1

link-protocol ppp

ip binding vpn-instance vpng

ip address 10.2.1.2 255.255.255.252

#

interface LoopBack1

ip address 1.1.1.1 255.255.255.255

#

interface Tunnel1/0/1

ip address unnumbered interface LoopBack1

tunnel-protocol mpls te

destination 2.2.2.2

mpls te tunnel-id 11 mpls te bandwidth bc0 5000 mpls te commit

#

interface Tunnel1/0/2 ip address unnumbered interface LoopBack1 tunnel-protocol mpls te destination 2.2.2.2 mpls te
tunnel-id 22 mpls te bandwidth bc0 10000 mpls te reserved-for-binding mpls te commit # bgp 100 peer 2.2.2.2 as-
number 100 peer 2.2.2.2 connect-interface LoopBack1 # ipv4-family unicast undo synchronization peer 2.2.2.2 enable #
ipv4-family vpnv policy vpn-target peer 2.2.2.2 enable # ipv4-family vpn-instance vpna import-route direct

# ipv4-family vpn-instance vpng import-route direct # ospf 1 opaque-capability enable area 0.0.0.0 network 100.1.1.0
0.0.0.3 network 1.1.1.1 0.0.0.0 mpls-te enable # tunnel-policy policy1 tunnel binding destination 2.2.2.2 te Tunnel1/0/2 #
tunnel-policy policy2 tunnel select-seq cr-lsp lsp load-balance-number 3 #
```

return Under the preceding configurations, traffic cannot be distributed to the three tunnels. To implement load balancing, which of the following modifications are correct?

- A. Delete policy 1 from PE 1.
- B. Delete policy 1 in the vpna instance view.
- C. Create a TE tunnel to 2.2.2.2 on PE 1.
- D. Create a GRE tunnel to 2.2.2.2 on PE 1.

Correct Answer: AC

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#### QUESTION 4

Which of the following can be implemented in an IP backbone network?

- A. RIP
- B. BGP
- C. ISIS
- D. MPLS

Correct Answer: BCD

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## QUESTION 5

As shown in the figure, a CE requires access to the internet, and PE 1 is connected to the gateway. Configurations on PE 1 are as follows:

PE 1 is connected to the internet gateway through interface 175.311.2 CE and CE 2 cannot ping the interface.

Which of the following statements are true?

- A. NAT translation must be configured on interface pos2/1.0 instead of interface s0./01.0
- B. A private network route must be configured on the internet gateway.
- C. The public parameter of a static default route must be configured.
- D. A default must be configured on CE an CE 2.

Correct Answer: B

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