

H31-161^{Q&As}

HCIE-Carrier IP (Written) V2.0

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QUESTION 1

Two BGP routes with the same prefix are received from two peers. The two routes have the same attributes except the next hop (NH1 and NH2). NH1 is iterated to the directly connected A and B, NH2 to directly connected C and D. If maximum load-balancing2 is configured in BGP and a router can be configured with a maximum of six paths for load balancing, how many paths does a forward information base (FIB) generate regarding this prefix?

- A. 1
- B. 2
- C. 3
- D. 4

Correct Answer: D

QUESTION 2

Which of the following statements about the merits of the HoVPN networking are true?

- A. If the UPE are SPE are separated by an IP/IPMLS network, they can be connected through a generic routing encapsulation (GRE) or LSP tunnel . A hierarchical MPLS VPN provides good scalability.
- B. The SPE and UP exchange routes and advertise labels through MP-BGP. Each UPE runs only one ? BGP peer, reducing system overheads and simplifying configuration.
- C. The BGP/MPLS VPN can be deployed layers by layer. When the performance of a super strum provider edge (SPE) is insufficient, a user-end provider edge (UPE) can be added and the SPE moved to a lower layer. When the access capability of a UPE is insufficient, and SPE can be added.
- D. Packets are forwarded between a UPE and an SPE after being label. The UPE and SPE are connected through an interface (or a subinterface), helping reduce the usage of limited interface resources.
- E. Only local VPN routes need to be maintained on an SPE and remote routes on the SPE are represented by a default route or an aggregate route, reducing the load of the SPE.

Correct Answer: ABD

QUESTION 3

Which of the following statements about the Martini VPLS are true?

- A. When LDP is used to transmit signaling, LDP TLVs carry the VPLS information.
- B. Labels are allocated for PWs in DU mode when they are established.
- C. Labels are allocated for PWs in DoD mode when they are established.
- D. Labels are retained using the liberal label retention method.

E. A VC must be established using remote LDP.

Correct Answer: BD

QUESTION 4

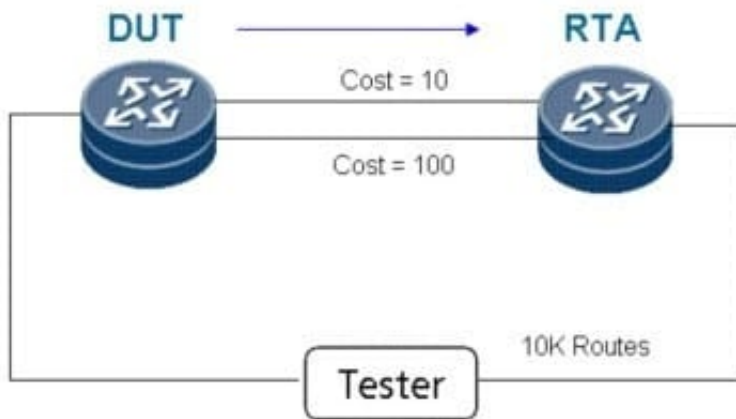
With the NAT technology, which of the following elements can be translated?

- A. Destination port number
- B. Source port number
- C. Source IP
- D. Session table
- E. Destination IP

Correct Answer: ABCE

QUESTION 5

Refer to the exhibit.



As shown in the topology, RTB directly connects to RTC through the POS interface. To implement the TE function, RTB and RTC are configured as follows: Configuration of RTB: mpls lsr-id 2.2.2.2 mpls mpls te mpls rsvp-te

mpls te cspf # isis 1 is-level level-2

cost-style compatible network-entity 00.2222.2222.2222.00 traffic-eng level-1-2 log-peer-change # interface Pos4/1/0 clock master link-protocol ppp ip address 22.33.22.33 255.255.0.0 isis enable 1 mpls mpls templs rsvp-te Configuration of RTC: # mpls lsr-id 3.3.3.3 mpls mpls te mpls rsvp-te mpls te cspf # isis 1 is-level level-2 cost-style wide network-entity 00.3333.3333.3333.00 traffic-eng level-1-2

log-peer-change # # interface Pos5/1/0 link-protocol ppp ip address 22.33.33.22 255.255.0.0 isis enable 1 mpls mpls te

mpls rsvp-te When a neighbor relationship is set up between RTB and RTC and becomes robust, the following information can be found in the LSDB of RTB.

Database information for IS-IS(1)

```
Level-2 Link State Database LSPID Seq Num Checksum Holdtime Length ATT/P/OL 2222.2222.2222.00-00*  
0x00007191 0x6689 1190 239 0/0/0 SOURCE 2222.2222.2222.00 NLPID IPV4 AREA ADDR 00 INTF ADDR  
22.33.22.33 NBR ID 3333.3333.3333.00 COST: 10 +NBR ID 3333.3333.3333.00 COST: 10 IP-Internal 22.33.0.0  
255.255.0.0 COST: 10 +IP-Extended 22.33.0.0 255.255.0.0 COST: 10 Router ID 2.2.2.2 3333.3333.3333.00-00  
0x0000001c 0x14a3 1184 188 0/0/0 SOURCE 3333.3333.3333.00 NLPID IPV4
```

AREA ADDR 00INTF ADDR 22.33.33.22 +NBR ID 2222.2222.2222.00 COST: 10 +IP-Extended 22.33.0.0 255.255.0.0
COST: 10 Router ID 3.3.3.3 Two records are generated for the same NBR ID, as shown in bold fonts. Which statement is true?

- A. The cost-style parameter of RTB is compatible. Therefore, two type-length-values (TLVs) (No.2 TLV and No.22 TLV) are generated locally. The two TLVs are the same in size.
- B. The cost-style parameter of RTB is compatible. Therefore, two TLVs (No.2 TLV and No.22 TLV) are generated locally. No.2 TLV is smaller than No.22 TLV.
- C. The cost-style parameter of RTB is compatible. Therefore, two TLVs (No.2 TLV and No.22 TLV) are generated locally. No.2 TLV is larger than No.22 TLV.
- D. It is an error indicating that the NBR TLV of a neighbor is added twice

Correct Answer: B

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