HCIE-R&S (Written) (Expert -Routing & Switching)

Huawei H12-261

Version Demo

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QUESTION NO: 1

Which of the following statements regarding the processing of BPDUs in 802.1w and 802.1D is true?

A. In 802.1D, the bridge only forwards the BPDUs received from the root bridge

B. In 802.1w, the bridge only forwards the BPDUs received from the root bridge

C. In 802.1D, the bridge does not forward BPDUs

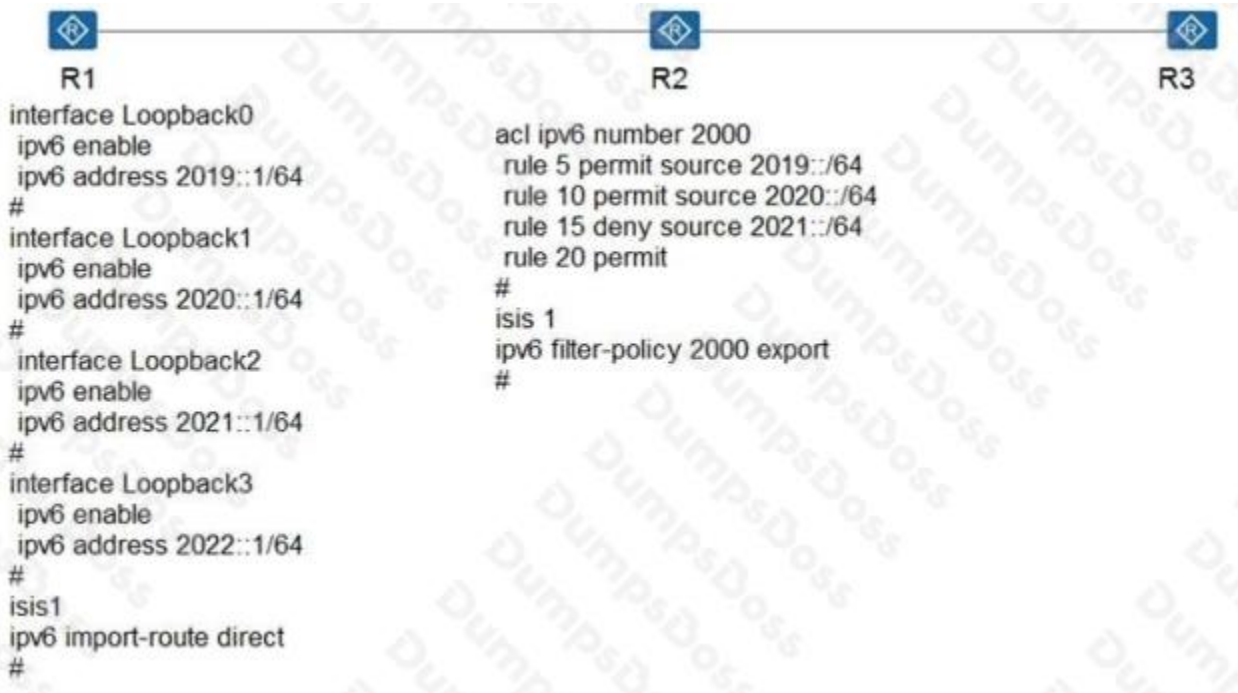**D.** In 802.1w, the bridge does not forward BPDUs

ANSWER: B

QUESTION NO: 2

Which of the following are found in a basic Network Layer Packet?

A. Network Layer Header

B. Path records

C. Data Link Layer Header

D. Upper Layer Data

E. Network Layer Trailer

ANSWER: A D E

QUESTION NO: 3

According to the figure shown and assuming that IPv6 is enable on ISIS process of all routers, R1, R2, and R3 establish Level-2 neighbor relationships. Which of the following statements regarding the IP routing table of R3 are true? (Choose all that apply.)

R1 — R2 — R3

R1
```
interface Loopback0
 ipv6 enable
 ipv6 address 2019::1/64
#
interface Loopback1
 ipv6 enable
 ipv6 address 2020::1/64
#
 interface Loopback2
 ipv6 enable
 ipv6 address 2021::1/64
#
interface Loopback3
 ipv6 enable
 ipv6 address 2022::1/64
#
isis1
ipv6 import-route direct
#
```

R2
```
acl ipv6 number 2000
 rule 5 permit source 2019::/64
 rule 10 permit source 2020::/64
 rule 15 deny source 2021::/64
 rule 20 permit
#
isis 1
ipv6 filter-policy 2000 export
#
```

A. 2019::/64 will be displayed in the IP routing table

B. 2020::/64 will be displayed in the IP routing table

C. 2021::/64 will be displayed in the IP routing table

D. 2022::/64 will be displayed in the IP routing table

ANSWER: A B C

QUESTION NO: 4

BGP can automatically summarize only routes with the Origin attribute being Incomplete.

A. TRUE

B. FALSE

ANSWER: A

QUESTION NO: 5

If no area is divided, which of the following statements regarding the link-state routing protocol are true?

A. Routers in the same routing domain may repeatedly receive the same link state information.

B. Routers in the entire routing domain have the same LSDB.

C. Each router establishes a routing domain topology.

D. Each router learns routing entries from updated routing information and adds them to the routing table.

E. The router sends all link state information from a neighbor to all other neighbors to ensure data synchronization in the database.

ANSWER: B

QUESTION NO: 6

OSPF is running on a network. In OSPF, what LSA type would only cause an Incremental SPF calculation?

A. Type 3

B. Type 4

C. Type 1

D. Type 2

E. Type 5

ANSWER: A B E

QUESTION NO: 7

Which of the following statements are true about RIPng?

A. RIPng does not have an authentication mechanism

B. Each RIPng update packet contains a maximum of 25 routes

C. RIPng supports MD5 authentication

D. RIPng uses the link local address to send update packets

E. RIPng supports a maximum of 32 hops

ANSWER: A D

QUESTION NO: 8

On a BGP/MPLS Ipv4 VPN, OSPF, LDP, and static routes are configured. Which of the following protocols must be enabled with GR to achieve NSF on PEs?

A. Static routes

B. MPLS LDP

C. OSPF

D. BGP

ANSWER: B C D

QUESTION NO: 9

Which of the following combinations will provide the optimal solution for deploying a loop-free Layer 2 network?

A. TRILL + MSTP

B. Stack + link aggregation

C. Link set + MSTP

D. Stack + MSTP

ANSWER: A

QUESTION NO: 10

When DLDP detects a unidirectional fiber link, Huawei devices perform the following operations by default: The DLDP state machine changes to the Disable state; a trap is generated; the interface is automatically blocked.

A. TRUE

B. FALSE

ANSWER: A

QUESTION NO: 11

To deploy multicast video applications on your private internal network, you need to use private multicast IP addresses on the network.

Which range of IP addresses can be used?

A. 226.0.0.0 – 226.255.255.255

B. 241.0.0.0 – 241.255.255.255

C. 224.0.0.0 – 224.255.255.255

D. 239.0.0.0 – 239.255.255.255

E. 240.0.0.0 – 254.255.255.255
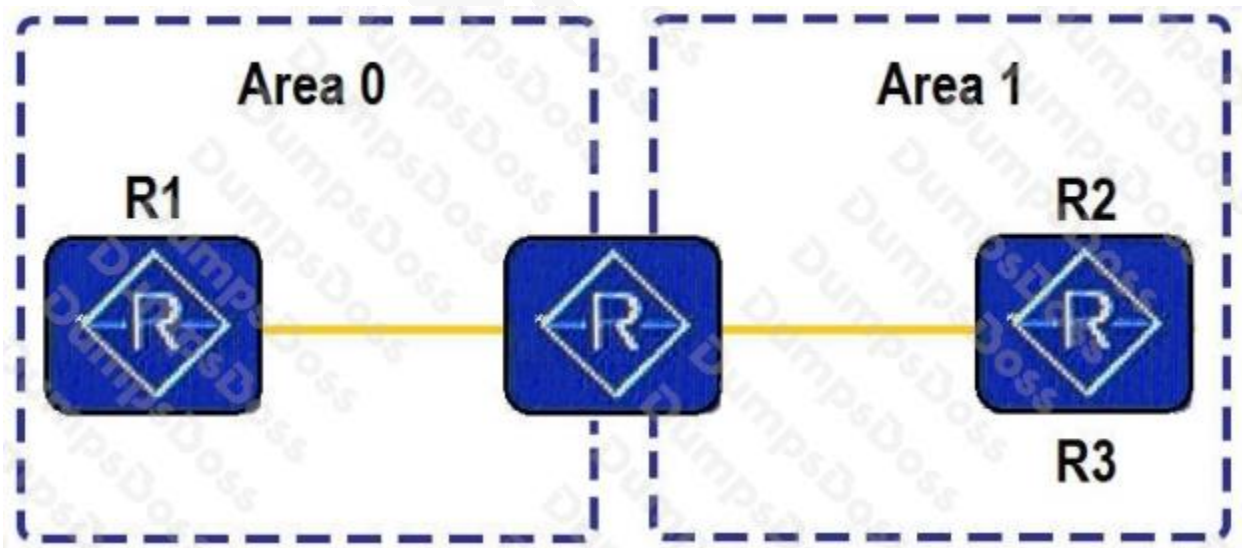
ANSWER: D

QUESTION NO: 12

In an existing OSPF network, which types of LSAs cause the SPF calculation?

A. Type 1 LSA

B. Type 3 LSA

C. Type 4 LSA

D. Type 2 LSA

E. Type 5 LSA

ANSWER: A D

QUESTION NO: 13

As shown in the following figure, R1, R2, and R3 run OSPF and advertise their loopback interface addresses into OSPF. Which of the following statements is false?

A. The filter import command can be executed on R2 in Area 0 to filter loopback interface routes of R3.

B. The filter-policy import command can be executed on R1 to filter loopback interface routes of R3.

C. The filter export command can be executed on R2 in Area 1 to filter loopback interface routes of R3.

D. The filter-policy export command can be executed on R2 to filter loopback interface routes of R3.

ANSWER: A

QUESTION NO: 14

A (*,G) multicast entry is associated with which multicast type of feature within the HW IP multicast network?

A. Shared tree

B. Dense Mode

C. Source tree

D. Sparse Mode

E. Dense Tree

F. PIM bidirectional

ANSWER: A D F

QUESTION NO: 15

Which of the following statements is false about the DSCP field?

A. When the DSCP value is EF, data is forwarded in expedited forwarding mode

B. CS in DSCP classifies data based on eight priorities

C. DSCP can represent the data priority as well as the packet drop probability

D. The DSCP value can be 0. When the value is 0, the default packet forwarding mechanism is used

ANSWER: A