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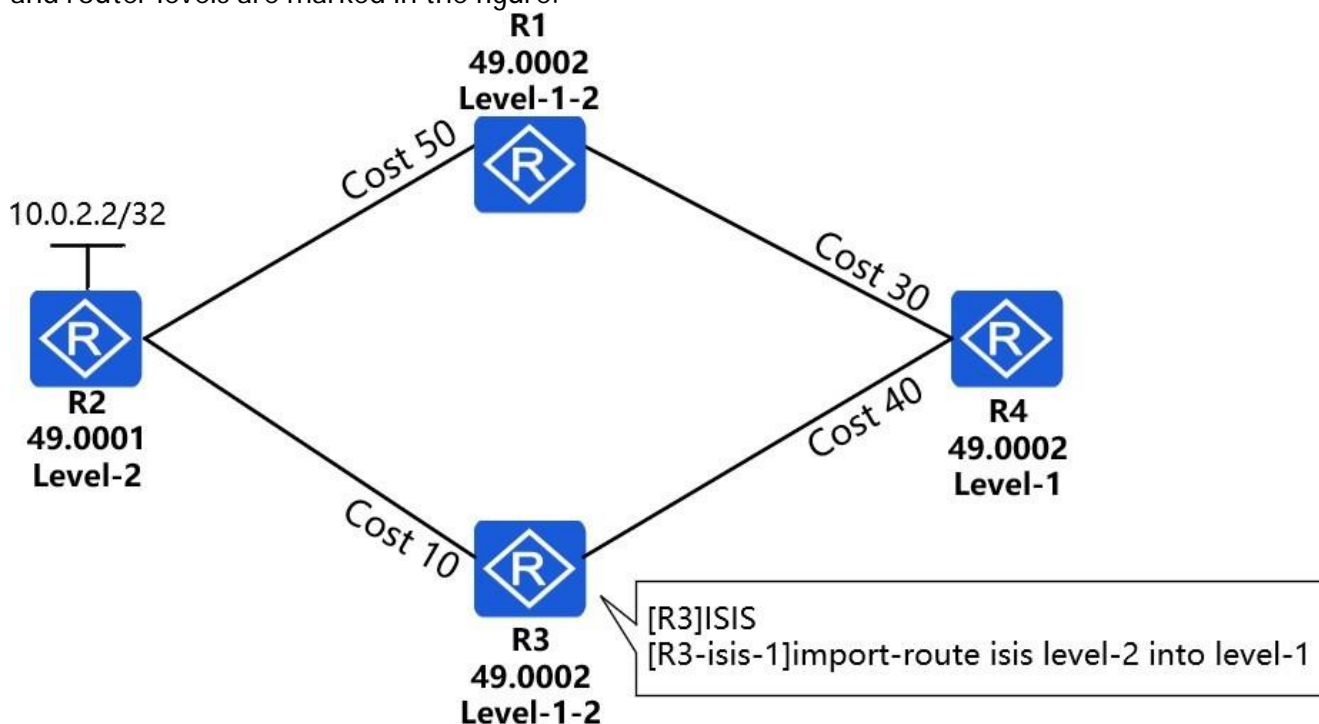
Exam : **H12-821_V1.0**

Title : **HCIP-Datacom-Core
Technology V1.0**

Vendor : **Huawei**

Version : **DEMO**

NO.1 The four routers run IS-S and have established an adjacency relationship. The area numbers and router levels are marked in the figure.



What is the cost of R4 reaching 10.0.2.2/32?

- A. 30
- B. 40
- C. 50
- D. 80

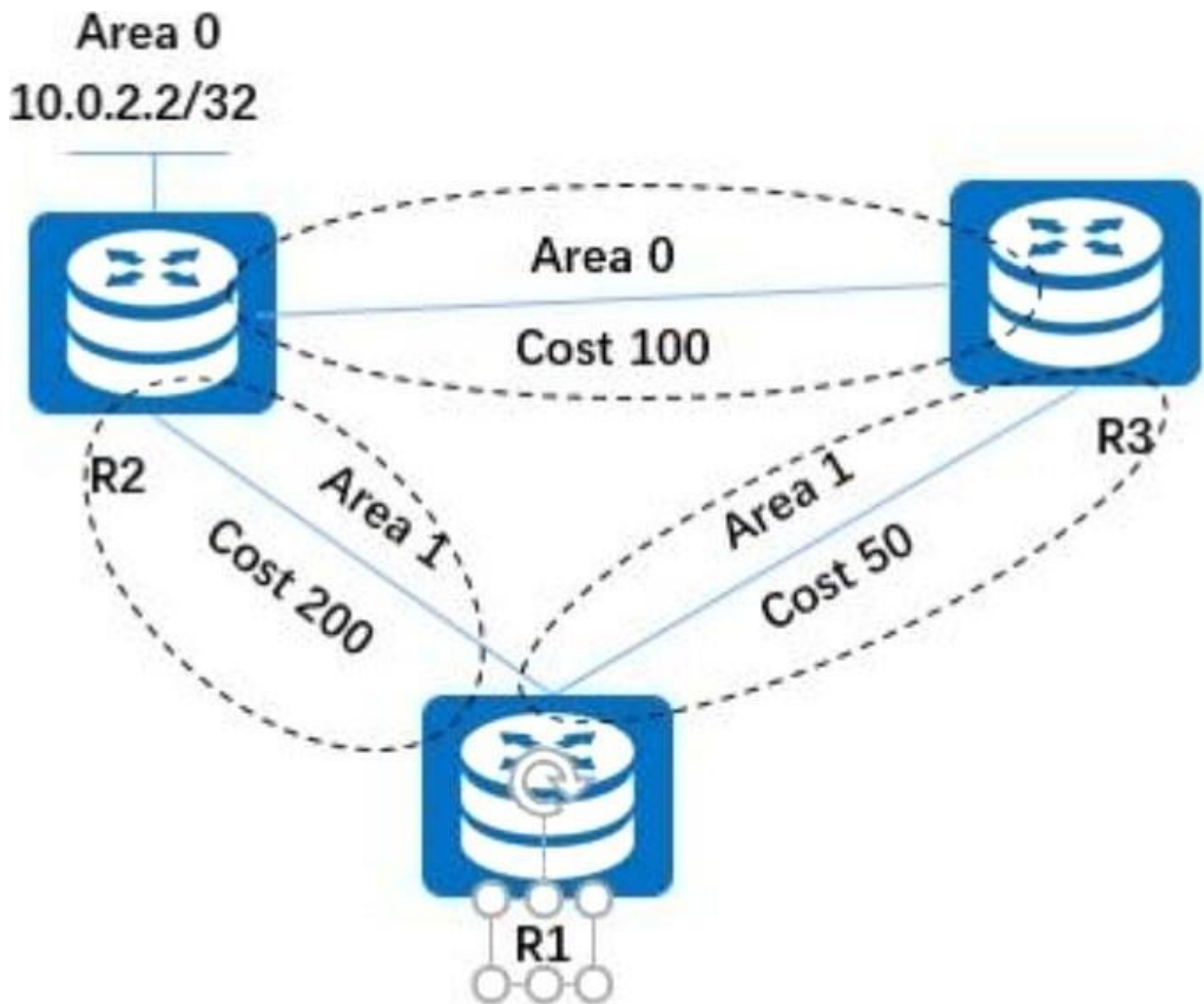
Answer: C

NO.2 The Hold time carried by BGP neighbor PeerA in Open is 90s, the Hold time carried by Peer in Open is 30s, and the time for PeerA and PeerB to send Keepalive messages after successful connection establishment is

- A. 30s
- B. 90s
- C. Do not send Keepalive messages
- D. 10s

Answer: D

NO.3 As shown in the figure, OSPF is enabled on all interfaces of the router. The cost value of the link is marked in the figure. Interface 0 of R2 Loopback0 is advertised in area 0. In area 1, R2 and R3 will transmit 10.0 in the form of Type3 LSA. 2.2/32 routing information.



A. TRUE

B. FALSE

Answer: A

NO.4 OSPFv3 uses the same route advertisement method as OSPFv2: it is advertised through the network command in the OSPFv3 area view.

A. TRUE

B. FALSE

Answer: B

NO.5 The output information of a certain router is as follows.

<R1>display ospf peer

OSPF Process 1 with Router ID 10.0.1.1

Neighbors

Area 0.0.0.0 interface 10.0.123.1 (GigabitEthernet0/0/0)'s neighbors

Router ID: 10.0.2.2 Address: 10.0.123.2

State: Full Mode:Nbr is Master Priority: 1

DR: 10.0.123.1 BDR: 10.0.123.2 MTU: 0

Dead timer due in 37 sec

Retrans timer interval: 5

Neighbor is up for 00:00:10

Authentication Sequence: [0]

Please match the information on the left with the information on the right.

Router ID of this device

10.0.2.2

The router ID of the peer device

10.0.1.1

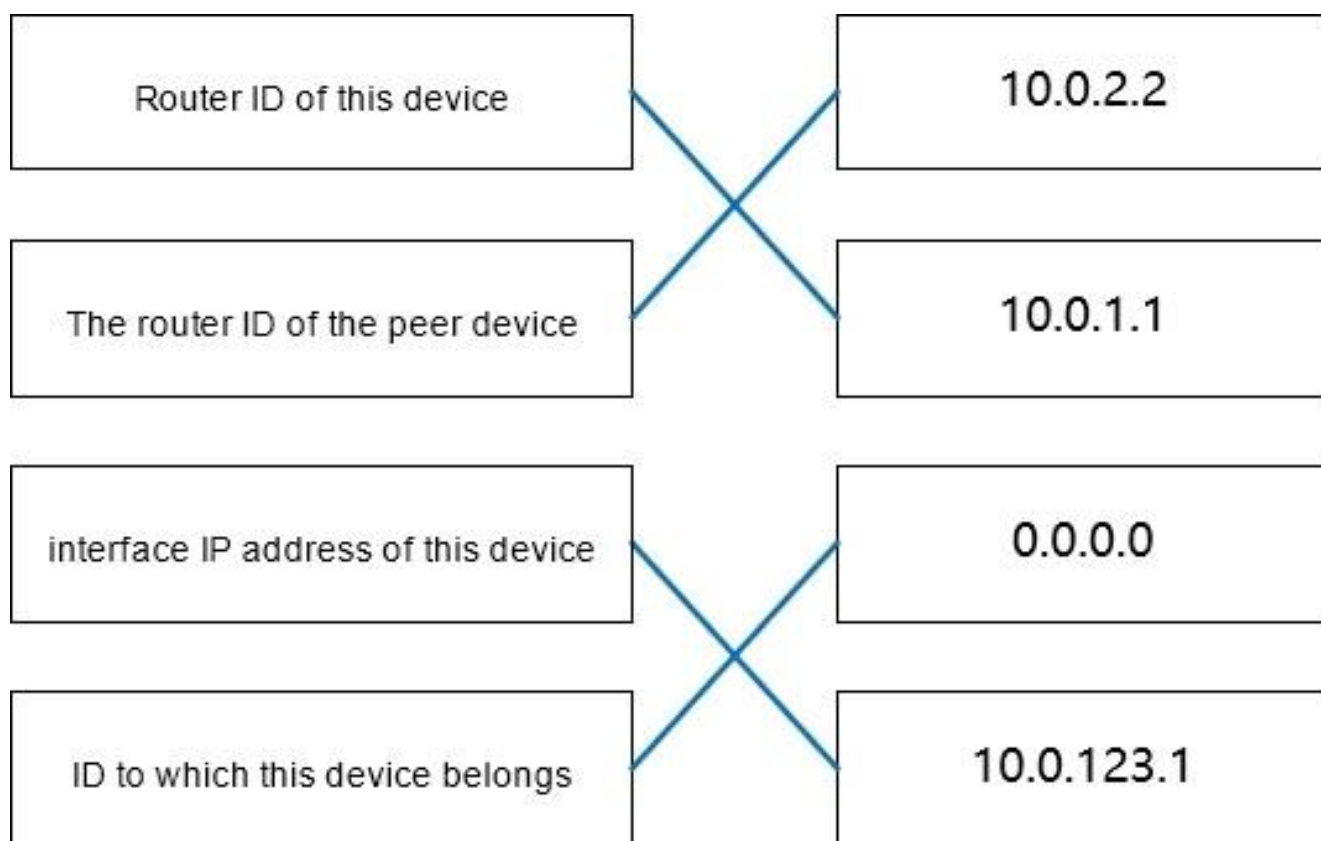
interface IP address of this device

0.0.0.0

ID to which this device belongs

10.0.123.1

Answer:



NO.6 Two Huawei devices R1 and R2 form a VRRP backup group. R1 is VRRPv2, and R2 is VRRPv3. Which of the following descriptions about the backup group is wrong?

- A. After R2 configures the command `vrp version-3 send-packet-mode v2v3-both`, it can exchange VRRP packets with R1
- B. After R2 configures the command `vrp version-3 send-packet-mode v3-only`, it cannot exchange VRRP packets with R1
- C. After R2 configures the command `vrp version-3 send-packet-mode v2-only`, it can exchange VRRP packets with R1
- D. By default, R1 and R2 can exchange VRRP packets

Answer: D

NO.7 After receiving a certain BGP route, the device does not want to advertise it to any other BGP peers. The community attribute of this BGP route can be set to which of the following types?

- A. No_Export_Subconfed
- B. No_Advertise
- C. No_Export
- D. Internet

Answer: B

NO.8 The ABR in the NSSA area will not flood Type 4 and Type 5 LSAs to NSSA, but will flood Type 7 LSAs to other areas.

- A. TRUE
- B. FALSE

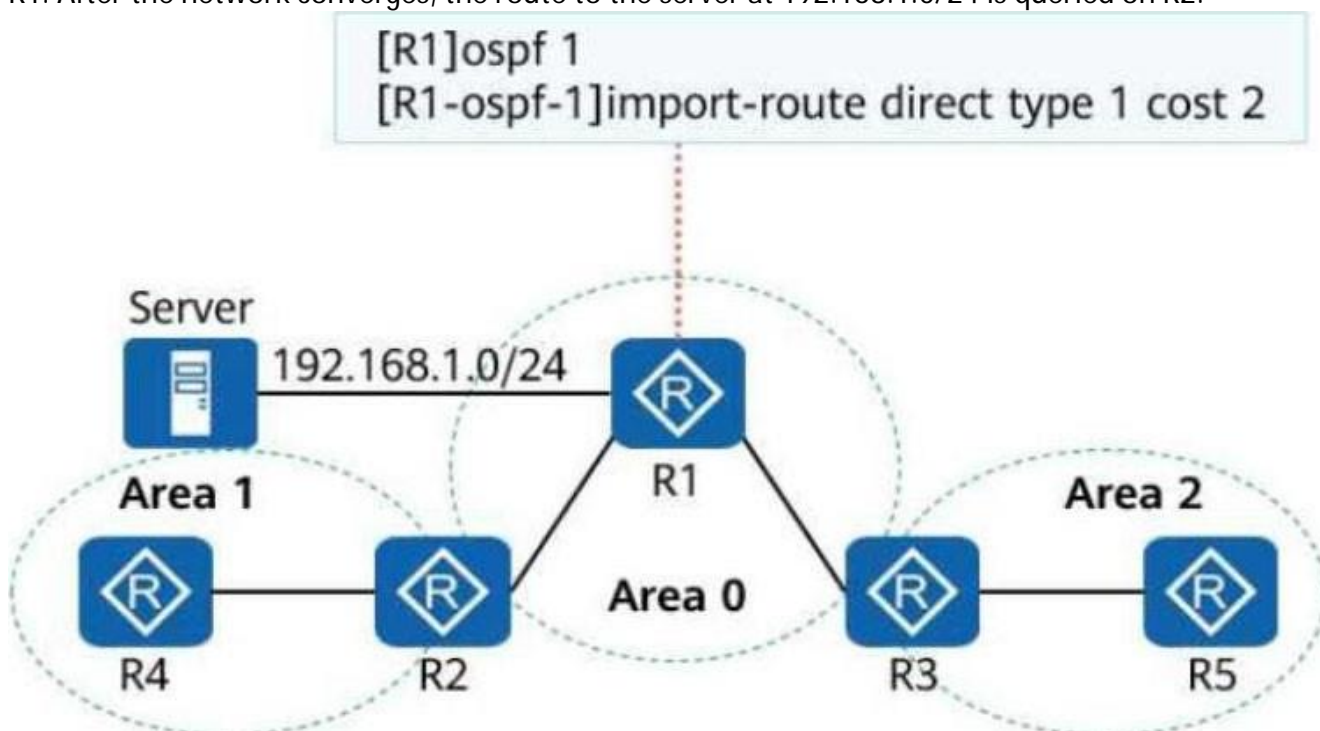
Answer: B

NO.9 In a network environment, there are both switches running RSTP and switches running STP, then the phenomenon that will appear in this network is: (Multiple choice)

- A. If it is a Huawei switching device, RSTP will switch to STP mode. After the STP switching device is withdrawn from the network, the RSTP -running switching device can migrate back to the RSTP working mode
- B. RSTP can interoperate with STP, but at this time RSTP advantages such as fast convergence are lost
- C. RSTP and STP are not interoperable and will perform independent operations
- D. If it is a Huawei switching device, the STP will switch to RSTP mode, and the switching device running RSTP can be configured to switch back to the RSTP working mode after the switching device is removed from the network.

Answer: AB

NO.10 On the campus OSPF network shown in the following figure, the interfaces connecting the five routers are GE interfaces, and their costs are not changed. The import-route command is run on R1. After the network converges, the route to the server at 192.168.1.0/24 is queried on R2.



Which of the following is the cost of this route?

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

Answer: C

NO.11 Which of the following descriptions about VRRP load sharing is correct? (Multiple choice)

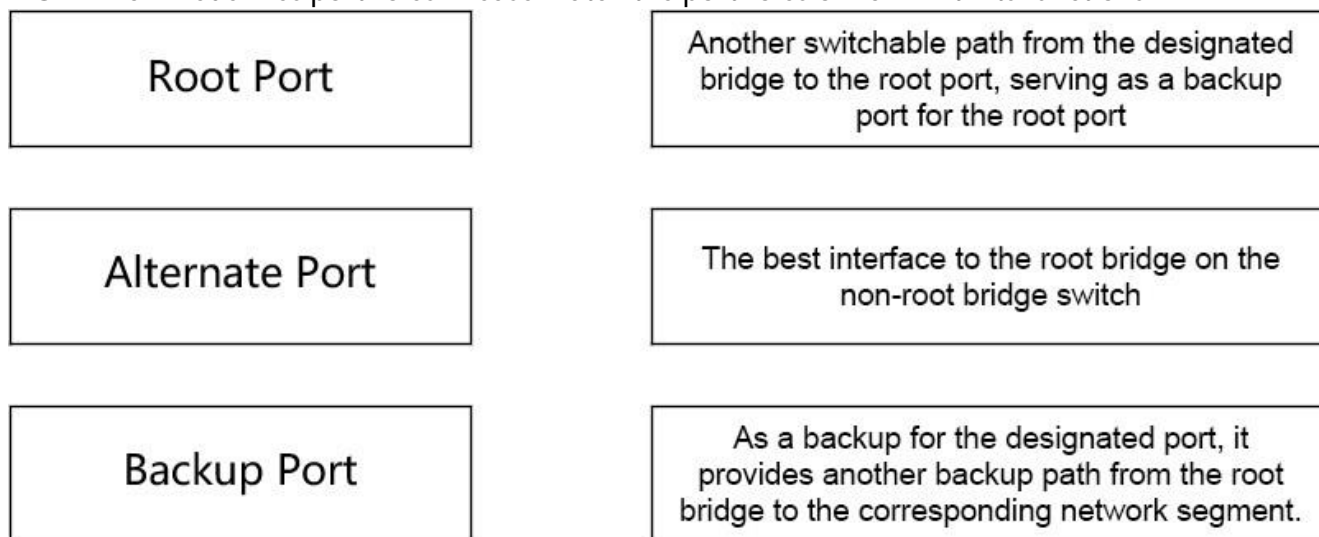
- A. The basic principle and packet negotiation process of VRRP load balancing and VRRP backup are

the same

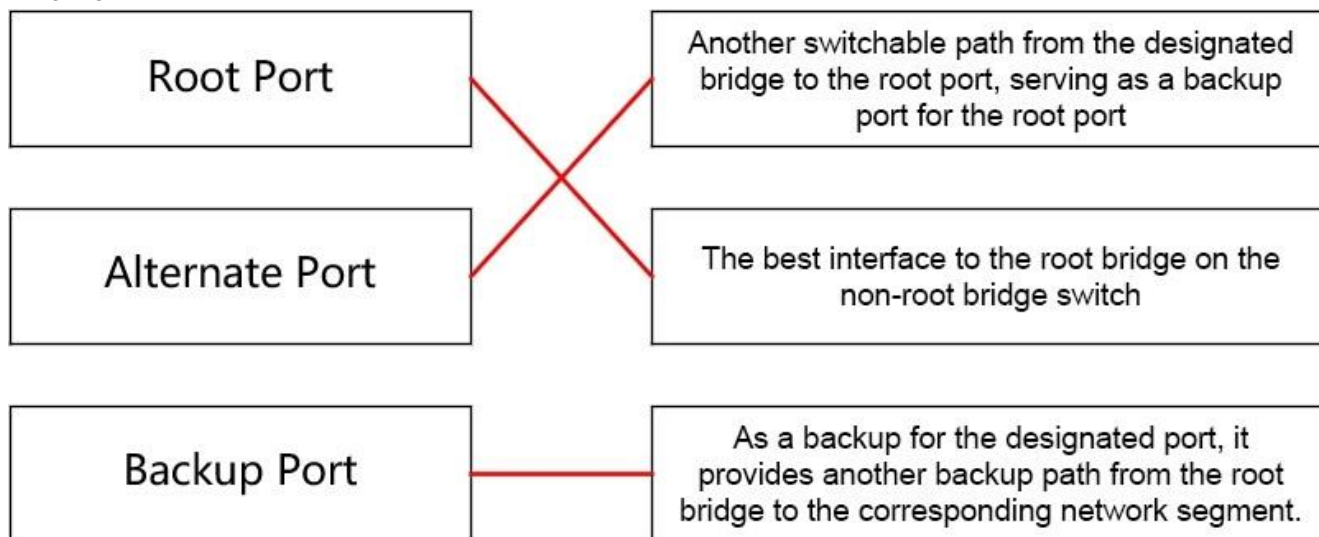
- B.** The load sharing method needs to establish multiple VRRP backup groups, and the Master device of each backup group can be different.
- C.** Load sharing means that multiple VRRP backup groups undertake business at the same time
- D.** Multi-gateway load sharing is to achieve load sharing by creating multiple VRRP backup groups with virtual IP addresses and specifying different VRRP backup groups as gateways for different users

Answer: ABCD

NO.12 RSTP redefines port roles. Please match the port roles of RSTP with its functions.



Answer:



NO.13 SA (Security Association) is a parameter that must be negotiated when an IPsec tunnel is established, so which of the following parameters is used to uniquely identify SA? (Multiple choice)

- A.** Source MAC address
- B.** Destination IP address
- C.** Security Protocol Number
- D.** Header checksum of the network layer header
- E.** SPI (Security Parameter Index)
- F.** Source IP address

Answer: ABCDEF

NO.14 Please match the name of the BGP recognized community attribute with its function.

<u>No Advertime</u>	After the device receives a route with this attribute, it will not send the route to any BGP peer
<u>No Export</u>	After the device receives a route with this attribute, it will not send the route map outside AS
Internet	As a backup of the designated port, it provides another backup path from the root bridge to the corresponding network segment
<u>No Export Subconfed</u>	After the device receives a route with this attribute, it will not advertise this route to other sub- ASs in the AS

Answer:

<u>No Advertime</u>	After the device receives a route with this attribute, it will not send the route to any BGP peer
<u>No Export</u>	After the device receives a route with this attribute, it will not send the route map outside AS
Internet	As a backup of the designated port, it provides another backup path from the root bridge to the corresponding network segment
<u>No Export Subconfed</u>	After the device receives a route with this attribute, it will not advertise this route to other sub- ASs in the AS

NO.15 When dual-link hot backup is configured in a WLAN group, the AP will establish CAPWAP links with the primary AC and backup AC respectively.

- A. TRUE
- B. FALSE

Answer: A

NO.16 OSPF networks are classified into broadcast, P2P, P2MP, and NBMA networks. Which of the following types of networks use the default Hello time (30s)?

- A. P2P
- B. Broadcast
- C. P2MP
- D. NBMA

Answer: CD

Explanation:

Default OSPF Hello Timer:

The OSPF Hello timer is used to send periodic Hello packets and maintain neighbor relationships.

Default Hello timers:

Broadcast and P2P: 10 seconds

NBMA and P2MP: 30 seconds

Network Types Using 30s Hello Time:

P2MP (C): OSPF sends Hello packets every 30 seconds by default.

NBMA (D): OSPF also uses 30 seconds for NBMA networks.

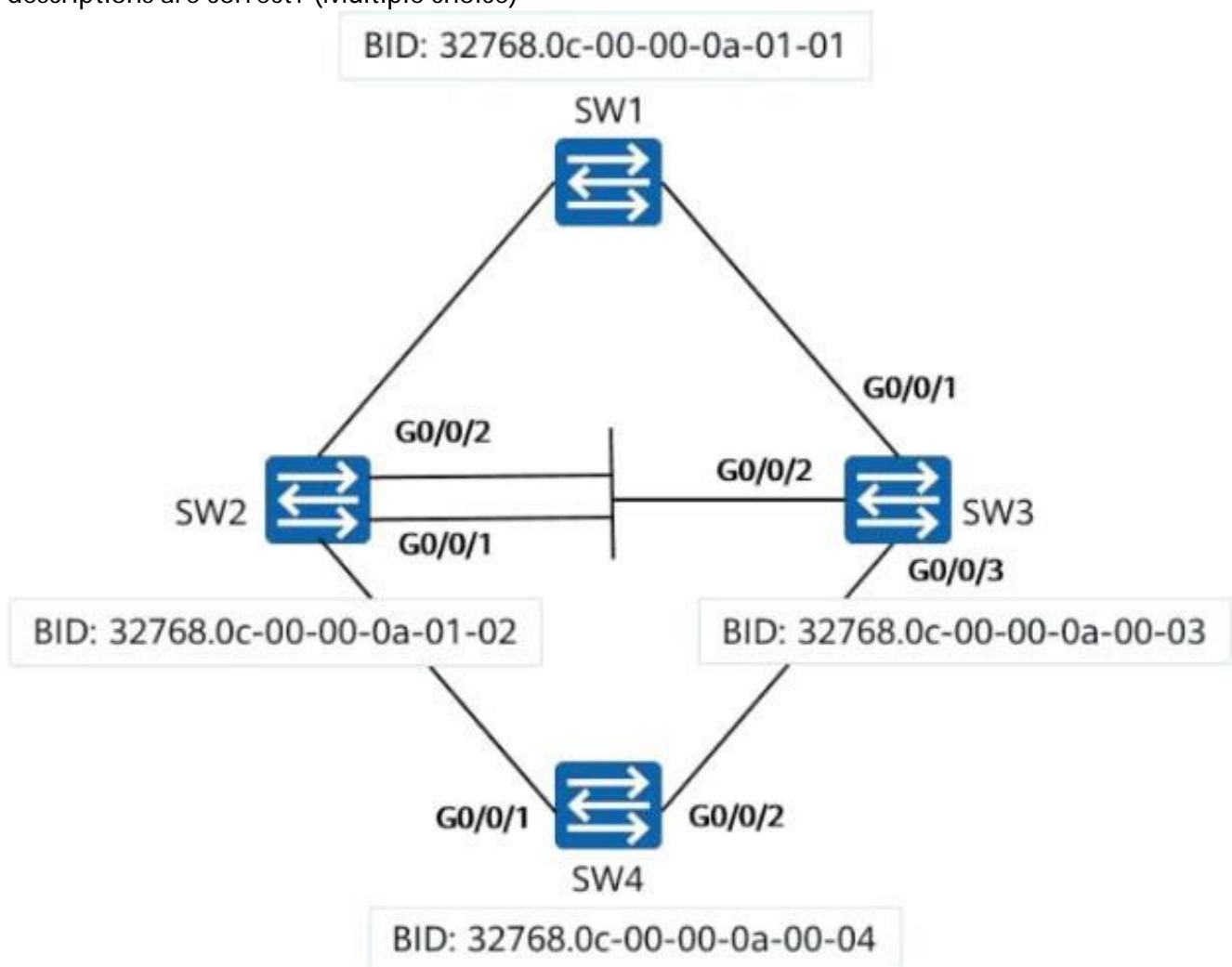
NO.17 The PIM (*, G) routing table entry lacks inbound interface information, so multicast traffic cannot be forwarded based only on the (*, G) table.

A. TRUE

B. FALSE

Answer: A

NO.18 If as shown, the four switches have been running and converged to complete the spanning tree calculation, and all port costs of the ST3 port are now set to 20000, then which of the following descriptions are correct? (Multiple choice)



A. The G0/0/3 port of SW3 will be changed from DPD to AP port.

- B. The G0/0/2 port of SW4 maintains its original port role.
- C. The G0/0/2 port of SW4 will be changed from AP port to DP port
- D. The G0/0/3 port of SW3 maintains its original port role.

Answer: AC

NO.19 Which of the following types does IS-IS PDU include? (Multiple choice)

- A. LSP
- B. CSNP
- C. PSNP
- D. IIH

Answer: ABCD

NO.20 Which of the following description about the reliable routing update of BGP is correct?

- A. BGP works on top of UDP, and the transport layer protocol is 179
- B. BGP does not need to periodically advertise routing information
- C. BGP sends complete routing table information for each routing update
- D. BGP uses multicast update

Answer: B

NO.21 The prefix list (IP-Prefix List) can match the IP address prefix length and mask length at the same time because it has three parameters: less-equal-value, mask-length and greater-equal-value, so which of the following can correctly describe the relationship between these three parameters?

- A. less-equal-value<=mask-length<=greater-equal-value<=32
- B. mask-length<=greater-equal-value<=less-equal-value<=32
- C. mask-length<=less-equal-value<=greater-equal-value<=32
- D. greater-equal-value<=less-equal-value<=mask-length<=32

Answer: B

NO.22 Regarding the basic concept of link aggregation, which of the following description is wrong?

- A. Link aggregation is a method of bundling a group of physical interfaces together as a logical interface to increase bandwidth and reliability.
- B. Link aggregation follows the IEEE802.3ad protocol.
- C. The logical link formed by bundling several physical links together is called a link aggregation group (LAG or Trunk)
- D. Link aggregation only exists on active interfaces

Answer: D

NO.23 In OSPF broadcast or NBMA network types, devices with high DR Priority may not necessarily become DR.

- A. TRUE
- B. FALSE

Answer: A

NO.24 Which of the following descriptions about LSA and LSDB are wrong? (Multiple choice)

- A. The LS sequence number field is used to detect old and duplicate LSAs
- B. The combination of LS type and Link StateID jointly identifies an LSA
- C. LSA is the smallest unit of LSDB
- D. The LSage field in the LSA header indicates the remaining lifetime of the LSA

Answer: BD

NO.25 Which of the following events will cause IS-IS to generate a new LSP? (Multiple choice)

- A. Adjacency Up or Down
- B. The imported IP route sends changes
- C. Periodic updates
- D. The interface overhead has changed

Answer: ABCD

NO.26 Which of the following statements regarding the stateful inspection firewall is true?

- A. When the stateful inspection firewall checks packets, packets of one same connection are not correlated.
- B. Because UDP is a connectionless protocol, so the stateful inspection firewall cannot match UDP packets with the status table.
- C. The stateful inspection firewall only needs to match the first data packet against a rule, and the subsequent packets of the connection are matched directly in the state table.
- D. The stateful inspection firewall needs to match the rules for each incoming packet.

Answer: C

Explanation:

A stateful inspection firewall tracks the state of network connections and only matches the initial packet against its rule set. Subsequent packets in the same connection are matched in the state table. Contrary to this, UDP packets can be inspected by correlating them with connection states, and packets in a single connection are always correlated.

NO.27 Which of the following items are included in the traffic matching conditions of the firewall security policy? (Multiple choice)

- A. Source IP address
- B. Source Safe Area
- C. Packet length
- D. Destination IP address
- E. Application
- F. Destination safe area

Answer: ABDEF

NO.28 Which of the following description of the Hello message in PIM-SM is wrong?

- A. The routers periodically use Hello messages to keep in touch
- B. In the PIM-SM network, the newly started multicast router needs to use Hello messages to discover neighbors and maintain neighbor relationships

- C. Hello packets are sent to the multicast address 224.0.0.5
- D. Elect DR in multi-router network segment through Hello message

Answer: C

NO.29 Which of the following statements regarding BGP route advertisement are false?

- A. All the BGP routes learned from all BGP peer will be advertised to other BGP peers.
- B. Only the optimal routes preferred by BGP can be advertised to other BGP peers.
- C. By default, the routes learned from an IBGP peer will not be forwarded to other IBGP peers.
- D. Only the routes learned from IGPs can be advertised to other BGP peers.

Answer: A

Explanation:

BGP does not advertise all routes learned from peers to other peers. By default, only the best (optimal) routes selected by BGP are advertised to other peers.

Additionally, routes learned from IBGP peers are not forwarded to other IBGP peers unless a route reflector or confederation setup is used. The statement claiming all learned routes are advertised is false.

NO.30 Which of the following descriptions about ACL classification numbers are correct? (Multiple choice)

- A. Layer 2 ACL number range: 6000~6999
- B. User-defined ACL number range: 5000~5999
- C. User ACL, 7000~7999
- D. Basic ACL number range, 2000~2999
- E. Advanced ACL number range, 3000~4999

Answer: BD

NO.31 On Huawei equipment, which of the following BGP path attributes only takes effect locally?

- A. Next Hop
- B. Preferred-Value
- C. Local_Preference
- D. MED

Answer: B

NO.32 Which of the following descriptions of multicast routing are correct? (Multiple choice)

- A. Multicast routing protocols include IGMP protocol
- B. If an upstream neighbor or downstream neighbor on the multicast distribution tree is unreachable, multicast routing will re-converge.
- C. Multicast routing protocols are divided into intra-domain multicast routing protocols and inter-domain multicast routing protocols.
- D. Multicast routing protocols are used to establish and maintain multicast routes, and forward multicast packets correctly and efficiently.

Answer: BCD

NO.33 Which of the following descriptions of routing policies and policy routing are correct?

(Multiple choice)

- A.** Policy routing mainly controls the introduction, publication and reception of routing information.
- B.** Routing policies mainly control the introduction, publishing and reception of routing information.
- C.** Policy routing mainly controls the forwarding of packets, that is, packets can be forwarded without following the routing table.
- D.** Routing policies mainly control the forwarding of packets, that is, packets may be forwarded without following the routing table.

Answer: BC

NO.34 By default, VRRP on Huawei AR routers runs in preemption mode.

- A.** TRUE
- B.** FALSE

Answer: A

NO.35 Which of the following descriptions about ABR in OSPF is wrong?

- A.** The ABR converts Type 1 and Type 2 LSAs in the connected non-backbone area into Type 3 LSAs and advertises them to the backbone area
- B.** ABR cannot generate Type 4 and Type 5 LSAs
- C.** There are multiple LSDBs on the ABR, and the ABR maintains an LSDBD for each area.
- D.** ABR converts Type 1, Type 2 LSA and Type 3 LSA in the backbone area into Type 3 LSA and publishes them to the connected non-backbone area

Answer: B