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Exam Code: H12-261
Exam Name: HCIE-R&S (Written) (Huawei Certified Internetwork Expert-Routing & Switching)



Exam A

QUESTION 1

You are assigned the task of compressing an IPv6 address as much as possible. If the original IPv6 address is 2013:0000:130F:0000:0000:09C0:876A:130B, which of the following is the IPv6 address in its compressed format?

- A. 213::13F::9C0:876A:13B
- B. 2013::130F::09C0:876A:130B
- C. 2013:130F:0:0:9C0:876A:130B
- D. 2013:0:130F:0:0:09C0:876A:130B
- E. 2013:0:130F::09C0:876A:130B

Correct Answer: E

Section:

QUESTION 2

Assuming three routers (A, B, and C) uses BGP as the routing protocol. A sends Update packets to B and B sends the Update packets to C. Which of the following attributes meet the following two conditions?

(1) A can select whether to carry this attribute in Update packets.

(2) If B receives an Update packet carrying this attribute, B still advertises the Update packet to C although B cannot identify this attribute. Then, Router C may identify and use this attribute.

- A. Multi_Exit_Disc
- B. Local_Pref
- C. Community
- D. Aggregator

Correct Answer: C, D

Section:

QUESTION 3

Which of the following statements regarding deploying IS-IS in an IPv6 environment is true?

- A. On a broadcast network, the IPv4 DIS priority and IPv6 DIS priority can be set, respectively.
- B. If the isis silent command is run on an IS-IS interface, the interface does not send but receives IS-IS packets.
- C. On a broadcast network, if each router supports both IPv4 and IPv6, the IPv4 DIS and IPv6 DIS must be the same device.
- D. By default, the DIS priority of Level-1 and Level-2 broadcast interfaces is 1.

Correct Answer: A

Section:

QUESTION 4

Which of the following statements regarding MP-BGP is false?

- A. The MP_UNREACH_NLRI attribute of Update packets does not contain path information
- B. MP_REACH_NLRI and MP_UNREACH_NLRI are optional transitive attributes
- C. The complete MP_REACH_NLRI attribute structure contains the address family, next hop, and prefix information



D. MP-BGP can be used to allocate labels

Correct Answer: B

Section:

QUESTION 5

Which of the following statements regarding OSPFv3 LSAs are true?

- A. The Link State ID of an Inter-Area-Prefix-LSA contains prefix information
- B. Router-LSAs and Network-LSAs do not contain routing information
- C. Inter-Area-Prefix-LSAs contain link-local information
- D. When the Referenced Link State Type of an Intra-Area-Prefix-LSA is 2, the Referenced Link State ID contains the interface ID of the DR

Correct Answer: D

Section:

QUESTION 6

When a Layer 3 switch forwards IP packets between locally attached VLANs, which of the following fields is rewritten?

- A. Layer 2 TTL
- B. Layer 3 transport protocol
- C. Layer 3 destination IP address
- D. Layer 3 source IP address
- E. Layer 3 TTL

Correct Answer: E

Section:

QUESTION 7

Which of the following statements regarding the packet processing method in the MPLS network model are false?

- A. The device discards IP packets that enter the MPLS domain.
- B. An LSR does not remove any label.
- C. A Label Switched Path (LSP) is determined and established through various protocols during the packet forwarding process.
- D. Both LERs and LSRs distribute labels.

Correct Answer: A

Section:

QUESTION 8

On an intra-AS MPLS BGP VPN, data packets are encapsulated with two MPLS labels before being sent to the public network. Which of the following statements regarding the labels is false?

- A. By default, a router assigns the same label value to all VPNv4 routes destined for the remote PE.
- B. The egress PE uses the inner label to determine the egress CE which packets are sent.
- C. Two labels are used on an MPLS BGP VPN: public network label (outer label) and VPN label (inner label).
- D. VPN labels are distributed by MP-BGP when routing information is transmitted. Public network labels are distributed by LDP.

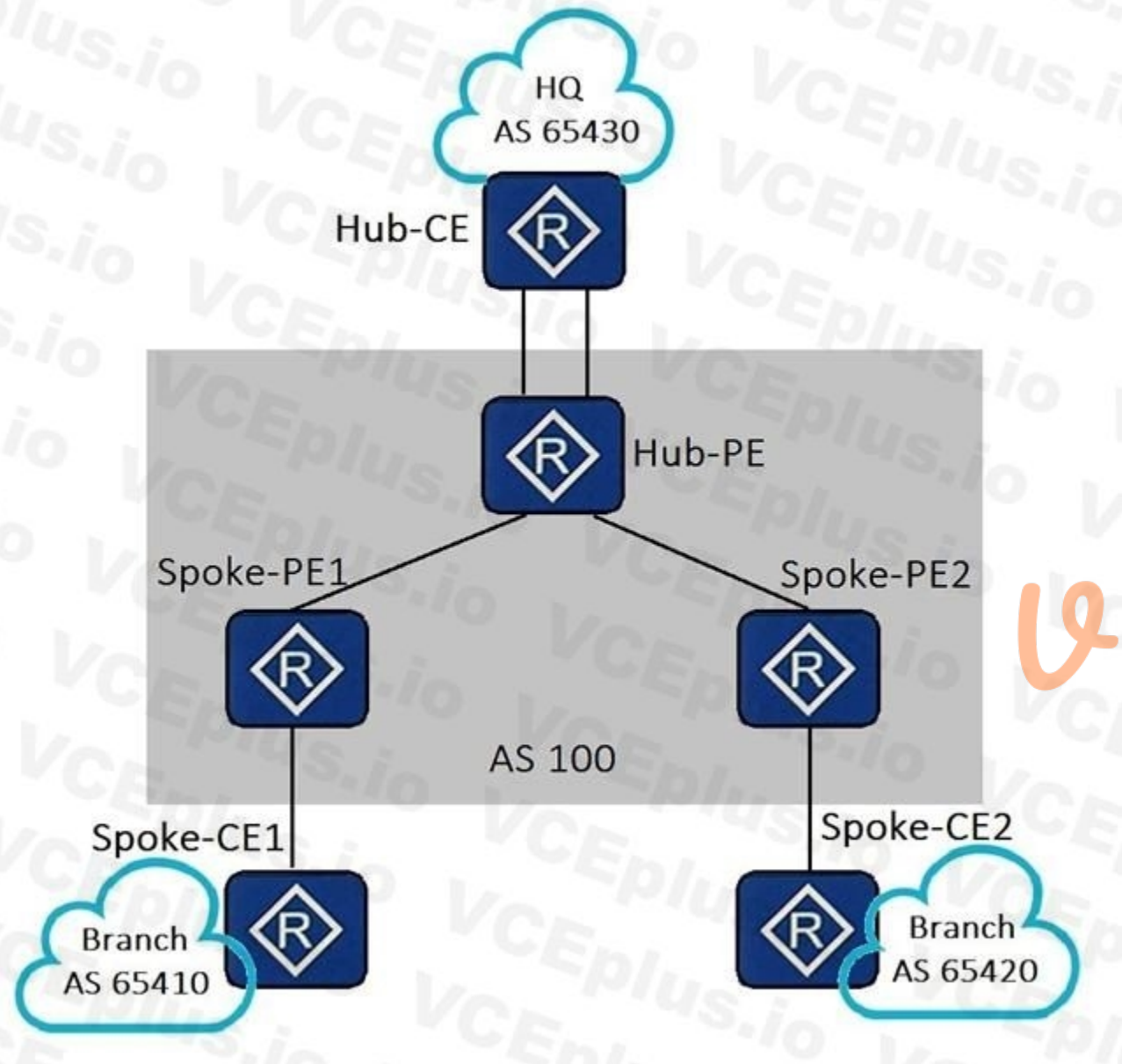


Correct Answer: A

Section:

QUESTION 9

As shown in the figure below, an enterprise wants to implement secure access between the headquarters and branches through MPLS VPN. VPN traffic of branches must be forwarded through the headquarters for traffic monitoring. Which of the following statements regarding this solution is false?



 **vdumps**

- A. When the Hub-CE and Hub-PE use EBGP to transmit routing information, the Hub-PE must be able to accept routes with the AS number repeated once so that routes advertised by the Hub-CE can be received.
- B. OSPF can be used to exchange routing information between Hub-CEs and Hub-Pes as well as between Spoke-Pes and Spoke-CEs.
- C. BGP can be used to exchange VPN routing information between CEs and Pes.
- D. The MP-IBGP peer relationship can be established between Spoke-Pes to exchange VPN routing information.

Correct Answer: A

Section:

QUESTION 10

Which of the following statements regarding the inter-AS MPLS VPN are false?

- A. In inter-AS VPN Option B mode, an MP-EBGP peer relationship needs to be established between two ASBRs.
- B. In inter-AS VPN Option B mode, two ASBR-Pes are interconnected through multiple interfaces (including sub-interfaces), each interface is associated with one VPN, and each ASBR-PE considers the remote device as a CE.
- C. In inter-AS VPN Option A mode, the routes advertised between two ASBRs are common IPv4 routes.
- D. In inter-AS VPN Option C solution 2, if only LDP is used to advertise public network labels, three labels need to be used during packet forwarding.

Correct Answer: D

Section:

QUESTION 11

If a Gigabit Ethernet port receive buffer becomes full on a LAN switch, what protocol can be used to request that the remote port delay sending frames for a specified time?

- A. 802.3AF
- B. 802.1D
- C. 802.3
- D. 802.3X
- E. 802.1U

Correct Answer: D

Section:

QUESTION 12

When receives or transmits data frames on an access port, what will the switch do?

- A. Switch will send tagged frames belong to a specified vlan
- B. When received a tagged frame from an access port. Switch may forward it vlan
- C. Switch will learn the MAC-address only on access port
- D. Switch only receives untagged frames from access port and drop all tagged frames

Correct Answer: A

Section:

QUESTION 13

Spanning Tree Protocol calculates path cost based on which of the following?

- A. Interface bandwidth
- B. Interface delay
- C. Hop count
- D. Interface bandwidth and delay
- E. Bridge priority

Correct Answer: A

Section:

QUESTION 14

On router HW1, you want to view the status of a frame relay connection. Which "display" commands will show the status of a Frame-Relay PVC? (Multiple choice)

- A. display frame relay interface



- B. display frame relay pvc
- C. display fr lmi-info
- D. display fr map-info interface Serial 0/0/0
- E. display fr interface Serial 0/0/0
- F. display fr inarp-info

Correct Answer: D, E

Section:

QUESTION 15

HW has a Frame Relay network with two sites (a headquarters site and a remote site) connected by a single PVC. RIP version 2 is running in the network. A new remote site is added and HW has ordered a second PVC between this site and the headquarters site. All Frame Relay interface IP addresses are in a single subnet. The customer configured Frame Relay DLCI mappings and can successfully ping from the new remote to the headquarters site as well as to the other remote site. However, the new router does not have a route in its route table to the other remote site's LAN, and cannot ping the LAN interface or any hosts on that LAN. What is most likely causing the problem?

- A. Triggered updates should be configured on the headquarters router, to directly forward routing updates between the two remote sites
- B. The headquarters site router has split-horizon enabled on the frame-relay interface
- C. Neighbor statements are not configured on the two remote sites, pointing to all other sites
- D. The frame-relay IP to DLCI mappings are incorrectly configured
- E. RIP cannot propagate routing updates over a partial mesh frame-relay configuration, so another routing protocol should be selected

Correct Answer: B

Section:

QUESTION 16



```
RTA:
interface Ethernet0/0
ip address 10.1.1.1 255.255.255.0
interface Ethernet0/1
ip address 30.1.1.1 255.255.255.0
ospf 100
area 0.0.0.0
network 10.1.1.0 0.0.0.255
network 30.1.1.0 0.0.0.255
```

```
RTB:
interface Ethernet0/0
ip address 10.1.1.2 255.255.255.0
interface Ethernet0/1
ip address 20.1.1.2 255.255.255.0
ospf 100
area 0.0.0.0
network 10.1.1.0 0.0.0.255
ospf 200
area 0.0.0.0
network 20.1.1.0 0.0.0.255
```

```
RTC:
interface Ethernet0/0
ip address 30.1.1.2 255.255.255.0
interface Ethernet0/1
ip address 20.1.1.1 255.255.255.0
ospf 200
area 0.0.0.0
network 20.1.1.0 0.0.0.255
network 30.1.1.0 0.0.0.255
```



Based on the preceding networking and configurations, which of the following statements is true?



- A. Route flapping occurs
- B. RTB and RTC cannot establish a neighbor relationship
- C. RTA and RTB cannot establish a neighbor relationship
- D. A neighbor relationship can be established; all network segments are reachable

Correct Answer: D

Section:

QUESTION 17

When a router is building a routing table from different routing protocols, which of the following will determine the routes to be installed in the routing table?

- A. The fastest routing process
- B. uniqueness
- C. Higher preference value
- D. The route with the largest next-hop address
- E. Low Router ID

Correct Answer: C

Section:

QUESTION 18

Which of the following statements are NOT true regarding the TCP sliding window protocol? (Multiple Choice)

- A. The initial window offer is advertised by the sender
- B. If the retransmission timer expires without the sender receiving an ACK message, the receiver retransmits the packet to the sender.
- C. The size of the sliding window can only increase or stay the same
- D. It allows the transmission of multiple frames before waiting for an acknowledgment
- E. The receiver is required to acknowledge the data packets transmitted by the sender
- F. The sender need not transmit a full window's worth of data

Correct Answer: A, B, E, F

Section:



QUESTION 19

Routers R1 and R2 are configured for BGP. Both routers are in AS 65234. Routes from Router R2 are in the BGP table on Router R1, but not in the IP routing table. What could be the cause of this problem?

- A. Synchronization is off
- B. BGP multi-hop is disabled on Router R1
- C. The next-hop of these routes can not reach by router R1
- D. The BGP peers are down

Correct Answer: C

Section:

QUESTION 20

What is the destination IP address of routing update packets sent by RIPv2?

- A. 255.255.255.255
- B. 224.0.0.1
- C. 224.0.0.5
- D. 224.0.0.9
- E. 224.0.0.10

Correct Answer: D

Section:

QUESTION 21

The LS Sequence Number field is used to detect expired and duplicate LSAs. This field is a signed 32-bit integer and therefore the minimum LS Sequence Number is 0x80000000.

- A. FALSE
- B. TRUE

Correct Answer: A

Section:

QUESTION 22

Which types of prefixes will a router running BGP most likely advertise to an IBGP peer, assuming it is not configured as a route reflector?

- A. Prefixes received from EBGP peers and prefixes received from route reflectors
- B. All prefixes in its routing table
- C. Prefixes received from EBGP peers and prefixes locally originated via network statements or imported
- D. Prefixes received from other IBGP peers, prefixes received from EBGP peers, and prefixes imported to BGP
- E. Prefixes received from other IBGP peers and prefixes received from router reflectors
- F. Prefixes received from any other BGP peer and prefixes locally originated via network statements or imported

Correct Answer: C

Section:

QUESTION 23

In a data communication session between two hosts, the session layer in the OSI model generally communicates with what other layer of the OSI model?

- A. The physical layer of the peer
- B. The peer's presentation layer
- C. The peer's session layer
- D. The peer's application layer
- E. The data link layer of the peer

Correct Answer: C

Section:

QUESTION 24

If a router receives a BGP route carrying the no-export community attribute, which of the following actions does the router take?

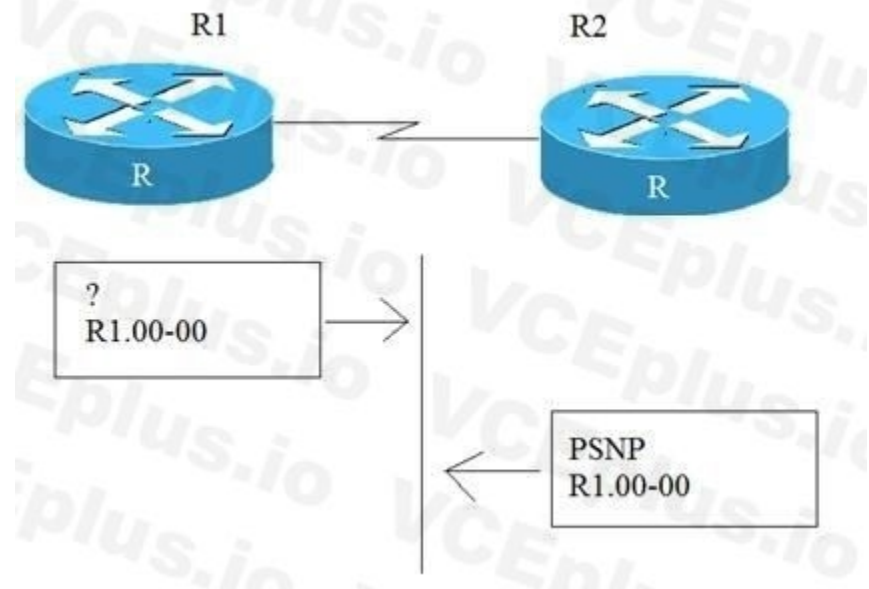
- A. Does not advertise the route to other BGP routers
- B. Discards the route directly
- C. Advertises the route to IBGP peers only
- D. Advertises the route normally, but does not use it to forward data

Correct Answer: C

Section:

QUESTION 25

As shown in the following figure, the neighbor relationship between R1 and R2 has just been established. Which of the following statements is true about the database synchronization process between R1 and R2?



- A. The packet sent from R1 and R2 is a PSNP packet
- B. The packet sent from R1 and R2 is a Hello packet
- C. The packet sent from R1 and R2 is a CSNP packet
- D. The packet sent from R1 and R2 is a LSP packet

Correct Answer: A

Section:

The logo for Vdumps.com, featuring a stylized orange 'V' followed by the word 'dumps' in a grey, lowercase, sans-serif font.

QUESTION 26

Which of the following are key differences between RIP version 1 and RIP version 2? (Multiple Choice)

- A. RIP version 2 uses multicasts while RIP version 1 does not
- B. RIP version 1 supports authentication while RIP version 2 does not
- C. RIP version 1 does not support VLSM while RIP version 2 does
- D. RIP version 1 is distance vector while RIP version 2 is not
- E. RIP version 1 uses hop counts as the metric while RIP version 2 uses bandwidth information

Correct Answer: A, C

Section:

QUESTION 27

Which of following statements is true about IS-IS LDP synchronization?

- A. LDP establishes a neighbor relationship faster than IS-IS, so LDP synchronization is disabled by default
- B. LDP synchronization can prevent traffic loss during an active/standby link switchover
- C. LDP synchronization can be enabled globally
- D. LDP synchronization can be configured on Loopback interfaces

Correct Answer: C

Section:

QUESTION 28

When a router within the HW network makes a forwarding decision, the _____ is always used to select the best route from those installed in the routing table.

- A. Routing process ID
- B. Longest prefix match
- C. Administrative Distance
- D. Router ID
- E. Peer ID

Correct Answer: B

Section:

QUESTION 29

Which of the following are found in a basic Network Layer Packet? (Multiple Choice.)

- A. Network Layer Header
- B. Path records
- C. Data Link Layer Header
- D. Upper Layer Data
- E. Network Layer Trailer

Correct Answer: A, D, E

Section:

QUESTION 30

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

- A. Type 3
- B. Type 4
- C. Type 1
- D. Type 2
- E. Type 5

Correct Answer: A, B, E

Section:

QUESTION 31

With regard to TCP headers, which control bit tells the receiver to reset the TCP connection?

- A. SND
- B. CLR
- C. PSH
- D. SYN
- E. RST
- F. ACK



Correct Answer: E

Section:

QUESTION 32

Two routers configured to run BGP have been connected to a firewall, one on the inside interface and one on the outside interface. BGP has been configured so the two routers should peer, including the correct BGP session endpoint addresses and the correct BGP session hop-count limit (EBGP multihop). What is a good first test to see if BGP will work across the firewall?

- A. There is no way to make BGP work across a firewall without special configuration, so there is no simple test that will show you if BGP will work, other than trying to start the peering session.
- B. Attempt to Telnet from the router connected to the inside of the firewall to the router connected to the outside of the firewall. If Telnet works, BGP will work, since telnet and BGP both use TCP to transport data
- C. There is no way to make BGP work across a firewall
- D. Ping from the router connected to the inside interface of the firewall to the router connected to the outside interface of the firewall. If you can ping between them, BGP should work, since BGP uses IP to transport packets.

Correct Answer: B

Section:

QUESTION 33

Which of the following can be used for BGP route selection? (Multiple Choice)

- A. DSCP
- B. IP-PREFIX
- C. ACL
- D. AS-PATH-FILTER

Correct Answer: B, C, D

Section:



QUESTION 34

Authentication can be configured in the IS-IS protocol to enhance IS-IS security. The IS-IS authentication functions include interface authentication, area authentication, and routing domain authentication.

- A. FALSE
- B. TRUE

Correct Answer: B

Section:

QUESTION 35

Each DD packet has a DD sequence number for packet acknowledgment. A DD sequence number is two-bytes long.

- A. TRUE
- B. FALSE

Correct Answer: B

Section:

QUESTION 36

You must configure a router for Policy Based Routing (PBR). PBR allows network administrators to implement routing policies to allow or deny paths on which of the following? (Multiple Choice)

- A. Protocol
- B. Identification of a particular end system
- C. Application
- D. Throughput
- E. Size of packets

Correct Answer: A, B, C, E

Section:

QUESTION 37

An AS-path-filter uses the regular expression $^{[0-9]^+}$ to indicate all as-path attributes.

- A. TRUE
- B. FALSE

Correct Answer: B

Section:

QUESTION 38

Which of the following scenarios can an AS-path-filter be used for? (Multiple Choice)

- A. Apply clauses in a route-policy
- B. Filtering the routes received from a BGP peer based on the as-path attributes of the routes, for example, peer X.X.X.X as path-filter import
- C. Filtering the routes sent to a BGP peer based on the as-path attributes of the routers, for example, peer X.X.X.X as-path-filter export
- D. If-match clauses in a route-policy

Correct Answer: A, B, C

Section:

QUESTION 39

Which of the following statements are true about RIPng? (Multiple Choice)

- 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

Correct Answer: A, D

Section:

QUESTION 40

An IPv6 device with the address of FC00::1 connects to the network and captures the following data packet. What is function of the data packet?

```
Frame 2: 78 bytes on wire (624 bits), 78 bytes captured (624 bits)
Ethernet II, Src: HuaweiTe_6e:7fa2 (00:e0:fc:6e:7fa2), Dst:Ipv6mcast_ff:00:00:01 (33:33:ff:00:00:01)
Internet Protocol Version 6, Src: :: (::), Dst: ff02::1:ff00:1 (ff02::1:ff00:1)
Internet Control Message Protocol v6
Type: 135 (Neighbor solicitation)
Code: 0
Checksum: 0x7ae5 [correct]
Reserved: 0 (Should always be zero)
Target: fc00::1 (fc00::1)
```

- A. There are multiple routers on the network segment. One router advertises router redirect messages to the IPv6 device.
- B. The router on this network segment tests the working status of the IPv6 device
- C. The IPv6 device implements self-loop tests
- D. Another device on this network segment requests to resolve the Layer 2 address of the IPv6 device
- E. The IPv6 device requests the address of the egress router
- F. The IPv6 device checks address configuration of other devices on the network

Correct Answer: F

Section:

QUESTION 41

Which of the following are legal representations of the IPv6 prefix 12AB00000000CD30? (Multiple Choice)

- A. 12AB::CD3::/64
- B. 12AB::CD30/64
- C. 12AB::0000:0000:CD30:0000:0000:0000/64
- D. 12AB:0:0:CD3::/64
- E. 12AB:0:0:CD3/64

Correct Answer: B, C

Section:

QUESTION 42

On a RIPng network, configure a router to advertise the default route to the entire network. Which of the following configurations is correct?

- A. [Huawei]ripng 1
[Huawei-ripng-1]import-route static cost 2
[Huawei-ripng-1]quit
[Huawei]ipv6 route-static :: 0 NULL0
- B. [Huawei]ripng 1
[Huawei-ripng-1]import-route static cost 2
[Huawei-ripng-1]quit
[Huawei]ipv6 route-static :: 0 2001:19:9
- C. [Huawei]ripng 1
[Huawei-ripng-1] ripng default-route originate
[Huawei-ripng-1]quit

```
D. [Huawei]interface GigabitEthernet0/0/1
[Huawei-GigabitEthernet0/0/1]ipv6 enable
[Huawei-GigabitEthernet0/0/1]ipv6 address 2001::12::1/64
[Huawei-GigabitEthernet0/0/1]ripng 1 enable
[Huawei-GigabitEthernet0/0/1]ripng default-route originate
[Huawei-GigabitEthernet0/0/1]quit
```

Correct Answer: D

Section:

QUESTION 43

Which IPv6 header field has a function similar to that of the "Type of Service" field in an IPv4 header?

- A. Flow Label
- B. Traffic Class
- C. Next Header
- D. Version

Correct Answer: B

Section:

QUESTION 44

Besides an IPv4 address, a router distinguisher (RD) also contains an identifier that distinguishes IP routes to the same destination IP address in different VPNs. How many bits are there in the identifier?

- A. 16
- B. 64
- C. 128
- D. 32

Correct Answer: B

Section:

QUESTION 45

Which of the following statements about penultimate hop popping are true?

- A. It can only be used with LDP
- B. It enables the Edge LSR to request a label pop operation from its upstream neighbors
- C. It is only used when two or more labels are stacked
- D. It is requested through LDP using a special label value that is also called the implicit-null value
- E. It is used only for directly connected subnets or aggregate routes

Correct Answer: B, D, E

Section:

QUESTION 46

Based on the routing information exchange mode, MPLS VPNs are usually classified into two types. One is the overlay VPN. What is the other type of MPLS VPN?

- A. L3 VPN
- B. Virtual Private Network
- C. L2 VPN
- D. Peer-to-Peer VPN

Correct Answer: D

Section:

QUESTION 47

What is the class D IP address range 239.0.0.0-239.255.255.255 used for?

- A. It is a multicast address range used by routing protocols
- B. Any legal multicast data flow and multicast application can use this address segment
- C. Link-local multicast traffic made up of network control messages meant to stay in the local subnet
- D. It is a locally scoped multicast address and should only be used on local segments
- E. It is an SSM multicast address range which is used on the entire network.

Correct Answer: D

Section:

QUESTION 48

Source Specific Multicast (SSM) is being used throughout the HW IP Multicast network. Which of the following three statements about SSM are true? (Choose three.)

- A. SSM uses Shortest-Path Trees Only
- B. There are no RPs to worry about
- C. SSM is best suited for applications that are of the Many-to-Many category
- D. SSM uses shared Trees only
- E. The use of SSM is recommended when there are many sources and it is desirable to keep the amount of mroute state in the routers in the network to a minimum.
- F. SSM is best suited for applications that are of one-to-many category

Correct Answer: A, B, F

Section:

QUESTION 49

The default SSM group address range is 232.0.0.0/8. Which of the following configurations can be performed to modify the SSM group address range?

- A. Run the ssm-policy advanced-acl-number command in the system view to configure the SSM group address range
- B. Run the ssm-policy basic-acl-number command in the system view to configure the SSM group address range
- C. Run the ssm-policy advanced-acl-number command in the PIM view to configure the SSM group address range
- D. Run the ssm-policy basic-acl-number command in the PIM view to configure the SSM group address range

Correct Answer: D

Section:

QUESTION 50

Which Multicast Protocols use Reverse Path Forwarding (RPF) information when sending multicast traffic streams towards receivers within HW routers?
(Multiple Choice)

- A. PIM Dense Mode
- B. DVMRP
- C. Multicast OSPF
- D. PIM Sparse Mode

Correct Answer: A, B
Section:

QUESTION 51

Routers HW1 and HW2 are IP Multicast routers. These routers use (S, G) entries for multicast packet forwarding. Which of the following address types are used in the "S" entry?

- A. The block of administratively scoped multicast addresses
- B. Source Specific multicast addresses
- C. SDP/SAP addresses
- D. Any class A, Class B, or Class C host address
- E. GLOP addresses

Correct Answer: D
Section:

QUESTION 52

Which of the following are differences between PIM-SM and PIM-DM? (Multiple Choice)



- A. PIM-SM has RPTs and SPTs but PIM-DM has only RPTs
- B. BSRs/RPs exist only on a PIM-SM network, not on a PIM-DM network
- C. PIM-SM is applicable to a network with few receivers; PIM-DM is applicable to a network with a larger number of receivers
- D. Whether in PIM-SM or PIM-DM mode, receiver hosts must join multicast groups through IGMP

Correct Answer: B, C, D
Section:

QUESTION 53

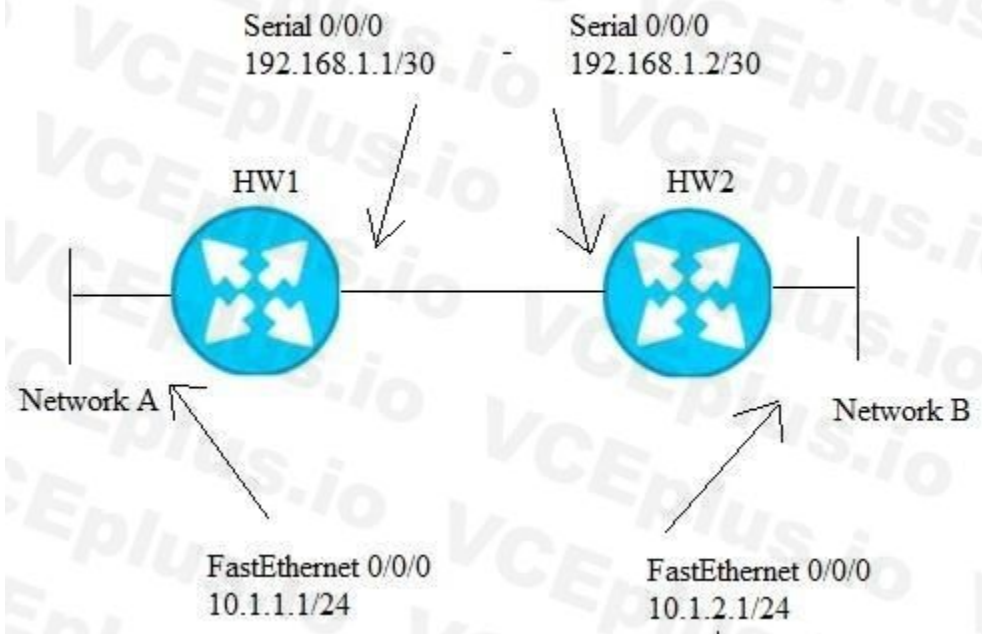
A (*,G) multicast entry is associated with which multicast type of feature within the HW IP multicast network? (Multiple Choice)

- A. Shared tree
- B. Dense Mode
- C. Source tree
- D. Sparse Mode
- E. Dense Tree
- F. PIM bidirectional

Correct Answer: A, D, F
Section:

QUESTION 54

The HW network consists of Network A and B that are connected via Router HW1 and Router HW2. The HW network is shown in the following exhibit. To set up an IPsec VPN between routers HW1 and HW2, which of the following crypto access-lists must be configured on Router HW1 in order to send LAN to LAN traffic across the encrypted VPN tunnel?



- A. rule permit ip source 10.1.2.0 0.0.0.255 destination 10.1.1.0 0.0.0.255
- B. rule permit ip source 10.1.1.0 0.0.0.255 destination 192.168.1.2 0
- C. rule permit ip source 198.168.1.1 0 destination 192.168.1.2 0
- D. rule permit ip source 10.1.1.0 0.0.0.255 destination 10.1.2.0 0.0.0.255
- E. rule permit ip source 192.168.1.1 0 destination 10.1.2.0 0.0.0.255



Correct Answer: D

Section:

QUESTION 55

To configure AAA, you need to define a RADIUS server. The RADIUS server is configured as follows:

```
[Huawei]radius-server template EXAM
[Huawei-radius-EXAM] radius-server shared-key cipher HUAwei123
[Huawei-radius-EXAM] radius-server authentication 10.7.66.66 1812
[Huawei-radius-EXAM] radius-server authorization 10.7.66.66 1812
[Huawei-radius-EXAM] radius-server accounting 10.7.66.66 1813
[Huawei-radius-EXAM] radius-server retransmit 2
```

- A. FALSE
- B. TRUE

Correct Answer: B

Section:

QUESTION 56

Which of the following lists, in the correct order, the protocols that use TCP ports 443, 179, 137, 110, and 23?

- A. HTTPS, BGP, NetBios Name Server, POP3, Telnet

- B. Finger, DHCP Server, NetBios Name Server, POP3, Telnet
- C. BGP, POP3, SNMP, TFTP, Telnet
- D. LDAP, SNMP, TFTP, POP3, Telnet
- E. HTTPS, SNMP, POP3, DNS, Telnet

Correct Answer: A

Section:

QUESTION 57

Switches use IPSG to verify the source address of IP packets. IPSG obtains the binding table by listening to the address resolution process.

- A. TRUE
- B. FALSE

Correct Answer: B

Section:

QUESTION 58

Which of the following statements are false about Weighted Round Robin (WRR)? (Multiple Choice)

- A. WRR is a congestion management technology
- B. WRR prevents congestion on the network
- C. WRR ensures important traffic being forwarded first
- D. WRR ensures that all queues being serviced
- E. WRR cannot be used on gigabit-ethernet interfaces



Correct Answer: B, E

Section:

QUESTION 59

Which of the following are functions of Random Early Discard (RED)?

- A. Avoiding global synchronization for TCP traffic
- B. Performs rate limiting on the specified data traffic
- C. Ensuring that high priority traffic gets sent first
- D. Preventing starvation in lower priority queues
- E. Minimizing packet delay jitter

Correct Answer: A, E

Section:

QUESTION 60

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

Correct Answer: A

Section:

QUESTION 61

You must ensure that mission critical traffic is prioritized in the HW network. The IP precedence of a packet can be determined by which of the following?

- A. The three most significant bits of the ToS byte
- B. All 8 bits of the ToS byte
- C. The three least significant bits of the ToS byte
- D. Bit 4, 5, and 6 of the ToS byte

Correct Answer: A

Section:

QUESTION 62

To improve delay and jitter on frame relay links, we can fragment and assemble the frame between multiple PVCs. This is similar to what happens with PPP multilink.

- A. FALSE
- B. TRUE

Correct Answer: B

Section:

QUESTION 63

Which of the following statements are true? (Multiple Choice)

- A. SNMPv2c has privacy and uses usernames for authentication
- B. SNMPv3 has privacy and uses community for authentication
- C. SNMPv3 has privacy and uses usernames for authentication
- D. SNMPv1 has no privacy and uses community for authentication
- E. SNMPv2c has privacy and uses usernames for authentication

Correct Answer: C, D

Section:

QUESTION 64

A new Syslog server is being installed in the HW network to accept network management information. What characteristics apply to these Syslog messages? (Multiple Choice)

- A. Its transmission is acknowledgment
- B. Its transmission is secure
- C. Its transmission is not secure
- D. Its transmission is not reliable
- E. Its transmission is not acknowledged
- F. Its transmission is reliable



Correct Answer: C, D, E

Section:

QUESTION 65

Which of the following statements about VRRP load balancing are false? (Multiple Choice)

- A. When configuring priorities, you must ensure that the same router server as the master router in three VRRP backup groups
- B. To implement load balancing, default network gateways of hosts on a LAN must be configured as IP addresses of different virtual routers
- C. Multiple VRRP backup groups can be created on an interface of a router. The router can serve as the master router in one VRRP backup group and the backup router in other VRRP backup groups.
- D. VRRP local balancing requires that at least two virtual routers transmit services at the same time.

Correct Answer: A, B, C

Section:

QUESTION 66

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? (Multiple Choice)

- A. Static routes
- B. MPLS LDP
- C. OSPF
- D. BGP

Correct Answer: B, C, D

Section:



QUESTION 67

SWA and SWB are connected through two physical Ethernet links. SWA has the following interface configurations:

```
[SWA]interface GigabitEthernet1/0/1
[SWA-GigabitEthernet1/0/1]port link-type trunk
[SWA-GigabitEthernet1/0/1]port trunk allow-pass vlan 1 10 100 [SWA]interface GigabitEthernet 1/0/2
[SWA-GigabitEthernet1/0/2]port link-type trunk
[SWA-GigabitEthernet1/0/2]port trunk allow-pass vlan 1 10
```

The two links are aggregated.

Assume that the configuration on SWB is correct. Given this information, which of the following statements are true?

- A. GigabitEthernet1/0/1 and GigabitEthernet1/0/1 can be added to the same LAG without changing the current configurations.
- B. After link aggregation is configured on SWA and SWB, if MSTP is enabled on them, GigabitEthernet1/0/1 and GigabitEthernet1/0/2 enter the Forwarding state in MSTP.
- C. GigabitEthernet1/0/1 and GigabitEthernet1/0/2 can be added to the same LAG only after the configuration of GigabitEthernet1/0/2 is changed to be the same as that of GigabitEthernet1/0/1.
- D. GigabitEthernet1/0/1 and GigabitEthernet1/0/2 cannot be added to the same LAG because the allowed VLANs are different.

Correct Answer: A

Section:

QUESTION 68

Which of the following command outputs indicates that a loop has occurred on a switch?

- A.

```
[CE02]display cpu-defend statistics
```

Packet Type	Pass(Packet/Byte)	Drop(Packet/Byte)	Last-dropping-time
arp-reply	24 1536	0 0	
arp-request	2003 140044	0 0	2018-05-21 16:56:39

B.

```
[CE02]display interface brief | include up
```

```
InUti/OutUti: input utility/output utility
```

Interface	PHY	Ptocol	InUti	OutUti	inErrors	outErrors
MEth0/0/1	up	up	0.03%	0.01%	0	0
NULL0	up	up(s)	0%	0%	0	0
Vlanif1	up	up	--	--	0	0
XGigabitEthernet0/0/1	up	up	0.32%	0.32%	0	0
XGigabitEthernet0/0/2	up	up	0.32%	0.32%	0	0

C.

```
[CE20]display cpu-usage
```

```
CPU Usage Stat. Cycle: 60 (Second)
```

```
CPU Usage 30% Max: 44%
```

```
CPU Usage Stat. Time : 2018-05-21 17:19:26
```

```
CPU utilization for five seconds: 18%: one minute: 18%: five minutes: 18%
```

```
Max CPU Usage Stat. Time : 2018-05-16 15:56:53.
```

D.

```
[CE02]display trapbuffer
```

```
Trapping buffer configuration and contents : enabled
```

```
Allowed max buffer size : 1024
```

```
Actual buffer size : 256
```

```
Channel number : 3 , Channel name : trapbuffer
```

```
Current messages : 178
```

```
#May 21 2018 16:26:35 CE02 L2IFPPI/4/MFLPVLANALARM:
```

```
OID 1.3.6.1.4.1.2011.5.25.160.3.7 MAC move detected, VLANID = 1,
```

```
MacAddress = 60de-f325-1b90, Original-Port = XGE0/0/2, Flapping port = XGE0/0/1.
```

```
Please check the network accessed to flapping port.
```

Correct Answer: A

Section:

Explanation:

Reference: http://support.huawei.com/online/toolweb/ptmngsys/Web/tsrev_ce/en/content/ce/08_edesk_dc_mac-address_flapping/edesk_dc_mac-address_flapping_edesk002.html

QUESTION 69

Which of the following statements regarding the process of sending and receiving data frames on a port in access link-type is true?

- A. Tagged data frames that are received are directly discarded.
- B. Only untagged data frames are received.
- C. VLAN tags are removed before data frames are sent.
- D. A switch learns the destination MAC address in the data frames when they are received on the switch's port.

Correct Answer: C

Section:

QUESTION 70

How long will a Huawei running RSTP wait before aging out the BPDUs on an interface?

- A. Hello time interval
- B. 6 seconds
- C. MaxAge interval
- D. BPDUs on the interface will not be aged out
- E. Forward delay

Correct Answer: C

Section:

Explanation:

Reference: <https://support.huawei.com/enterprise/en/doc/EDOC1000088827?section=j00h>



QUESTION 71

Which of the following statements regarding LACP are true?

- A. You can run the following commands to delete member interfaces from an Eth-Trunk:
interface GigabitEthernet0/0/1 shutdown
interface GigabitEthernet0/0/1 undo eth-trunk 1 interface GigabitEthernet0/0/1 undo shutdown
- B. You can run the following commands to prevent frequent flapping due to physical link faults on an Eth-Trunk:
interface eth-trunk 1 lacp preempt enable lacp preempt delay delay-time
- C. You can run the following commands to add member interfaces to an Eth-Trunk:
interface GigabitEthernet0/0/1 shutdown interface eth-trunk 1
trunkport GigabitEthernet0/0/1 interface GigabitEthernet0/0/1 undo shutdown
- D. You can run the following commands to enable load balancing based on source IP addresses for an Eth-Trunk:
interface eth-trunk 1 load-balance src-dst-ip

Correct Answer: A

Section:

QUESTION 72

Which of the following statements regarding PPPoE data frames are true?

- A. The Ethernet_Type field has a fixed value of 0x8863.
- B. The Session_ID field of a PPP session must be the value specified in the Discovery phase and cannot be changed.
- C. When PPPoE is used to transmit session data, Code must be set to 0x0.

D. After a PPPoE session is set up, all Ethernet packets are unicast.

Correct Answer: B

Section:

QUESTION 73

As shown in the figure below, R1 and R2 are connected through a PPP link, and the IP addresses on the directly connected interfaces are not on the same network segment. R1 and R2 can communicate with each other through the directly connected interfaces. However, communication on the Ethernet link fails if the IP addresses on the directly connected interfaces are on the same network segment. What are the causes of this?



- A. The Ethernet header does not need to be encapsulated into data packets between R1 and R2 that are directly connected through a POS interface, and ARP does not need to be used to obtain MAC addresses.
- B. R1 and R2 that are directly connected through a POS interface learn the MAC address of each other using LCP, and ARP does not need to be used to obtain MAC addresses.
- C. R1 and R2 that are directly connected through a POS interface learn the 24-bit subnet route of each other through IPCP.
- D. R1 and R2 that are directly connected through a POS interface learn the 32-bit host route of each other through IPCP.

Correct Answer: D

Section:



QUESTION 74

Routes received from AS100 match the AS-Path filter configured using the ip as-path-filter 10 permit_100\$ command.

- A. TRUE
- B. FALSE

Correct Answer: A

Section:

QUESTION 75

On a broadcast network, DIS election starts only after the neighbor relationship is established.

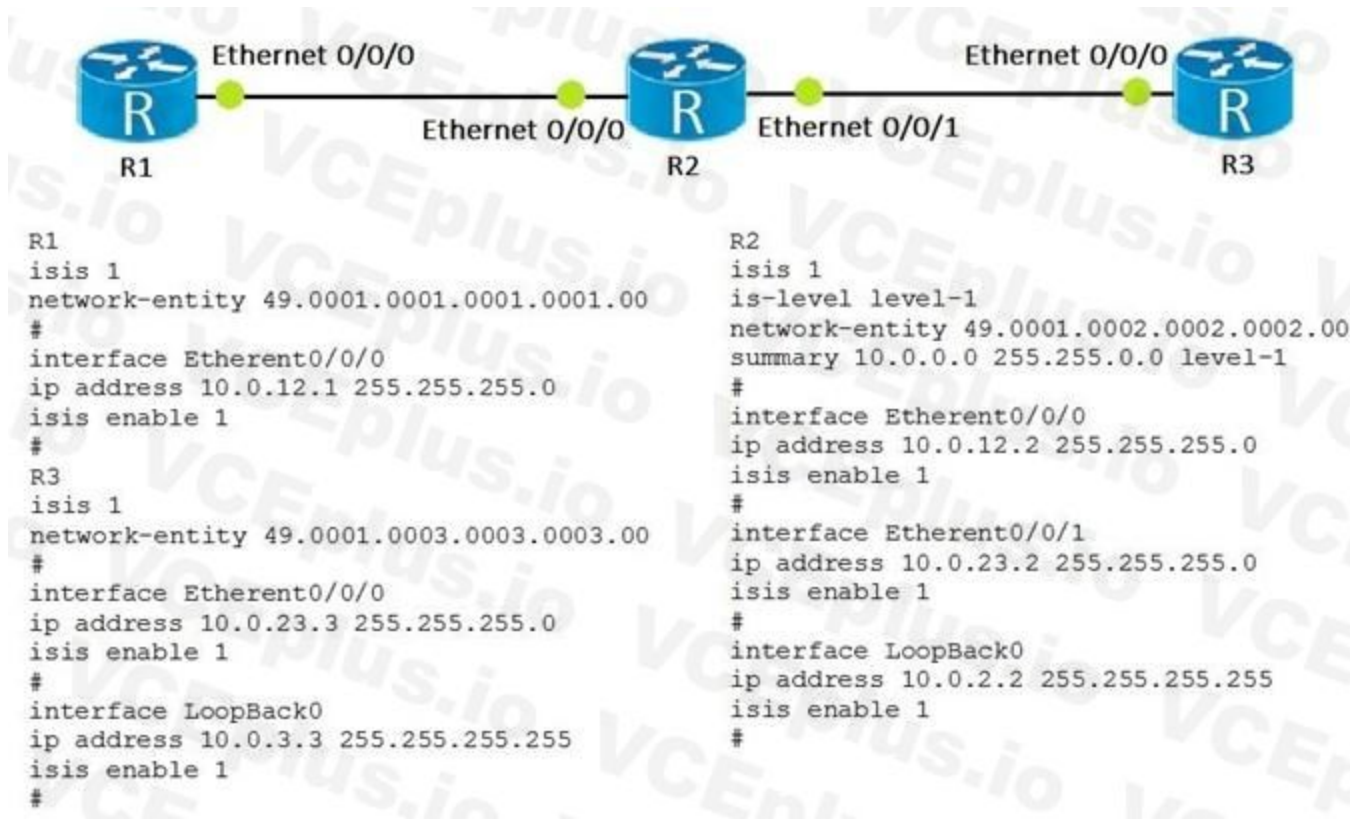
- A. TRUE
- B. FALSE

Correct Answer: A

Section:

QUESTION 76

Which of the following statements is true according to the topology shown?



- A. Routing entries 10.0.3.3/32 and 10.0.0.0/16 exist in the IP routing table of R1.
- B. Routing entries 10.0.2.2/32 and 10.0.3.3/32 exist in the IP routing table of R1.
- C. Because routing summarization is configured on R2, only the routing entry 10.0.0.0/16 exists in the IP routing table of R1.
- D. Routing entries 10.0.2.2/16 and 10.0.0.0/16 exist in the IP routing table of R1.

Correct Answer: C

Section:

QUESTION 77

Which of the following statements regarding BGP attributes is true?

- A. A route can have only one value for the Community attribute.
- B. The number of the neighboring AS is displayed to the right of the AS_path list of a BGP routing entry.
- C. The Local_Pref attribute is exchanged only between EBGP peers and is not advertised other Ass.
- D. When advertising a route learned from an EBGP peer to an IBGP peer, the BGP speaker does not change the Next_Hop attribute of the route.

Correct Answer: D

Section:

QUESTION 78

Many transition technologies have been adopted to replace IPv4 addresses on networks with IPv6 addresses. These technologies are categorized into IPv4/IPv6 coexistence technologies and IPv4/IPv6 interoperability technologies. Which of the following technologies are considered to be IPv4/IPv6 coexistence technologies?

- A. NAT64
- B. ISATAP
- C. IPv6 over IPv4

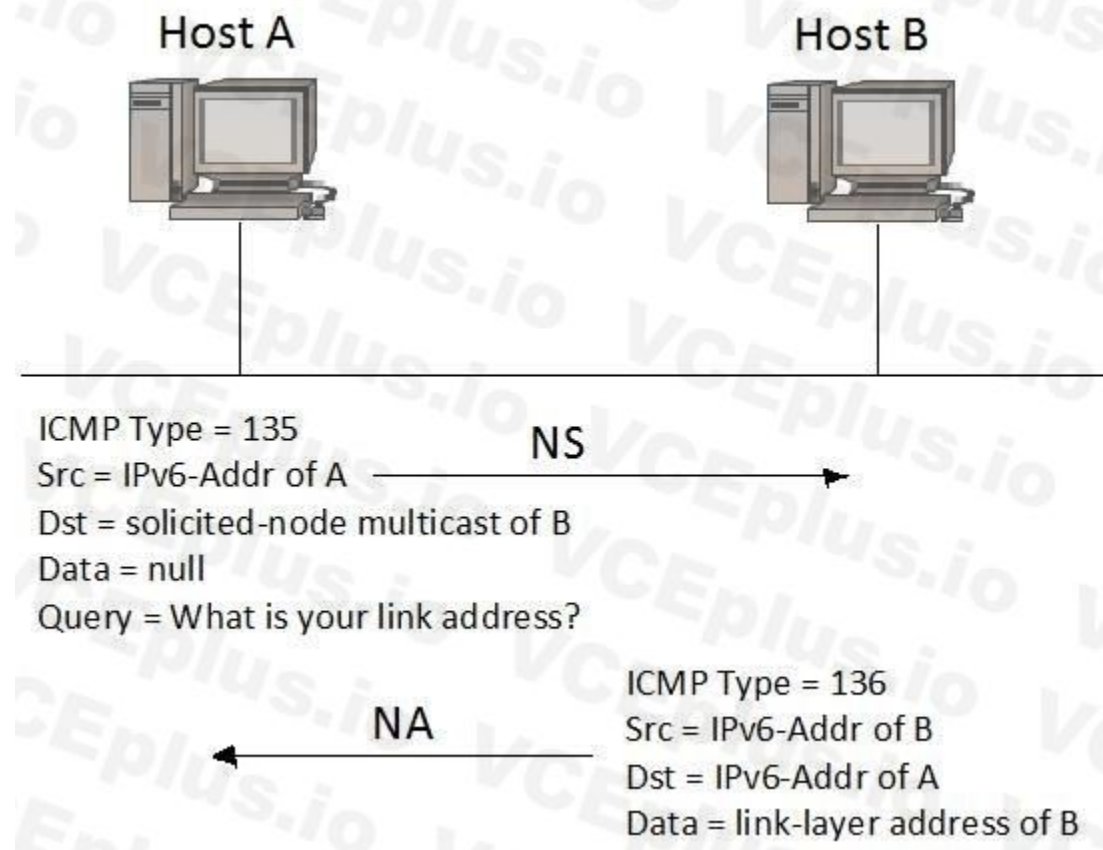
D. Dual Stack

Correct Answer: D

Section:

QUESTION 79

Does the following figure correctly show the process of obtaining the link-layer address using NDP?



A. TRUE

B. FALSE

Correct Answer: A

Section:

QUESTION 80

Which of the following statements regarding LDP reliability is false?

- A. By default, the policy for manually configuring LDP FRR specifies that backup routes with 32-bit addresses should trigger the setup of a backup LDP LSP.
- B. Synchronization between LDP and IGP requires suppression of IGP route advertisement to achieve consistent LDP and IGP.
- C. LDP FRR can generate an LSP as the backup of the primary LSP based on Label Mapping messages that are not from the optimal next hop. LDP FRR establishes forwarding entries for the backup LSP.
- D. LDP Graceful Restart (GR) leverages the separation of the forwarding plane and control plane by MPLS to ensure uninterrupted traffic transmission during a protocol restart or active/standby switchover.

Correct Answer: A

Section:

QUESTION 81

The display mpls lsp command is run on a router to check LSP information. The command output is as follows:

```
[Huawei]display mpls lsp
LSP Information: LDP LSP
FEC          In/Out Label  In/Out IF  Vrf Name
1.1.1.1/32   NULL/1024    -GEO/0/2
1.1.1.1/32   1027/1024    -GEO/0/2
2.2.2.2/32   NULL/3       -GEO/0/2
2.2.2.2/32   1028/3       -GEO/0/2
3.3.3.3/32   NULL/3       -GEO/0/0
3.3.3.3/32   1026/3       -GEO/0/0
4.4.4.4/32   3/NULL      -/-
```

Which of the following statements is true?

- A. When sending a data packet with the destination IP address 4.4.4.4, the router sends it directly without any label added.
- B. After receiving a data packet with label 1024, the router changes the label to label 1027 and then sends the packet.
- C. When sending a data packet with the destination IP address 2.2.2.2, the router sends it directly without any label added.
- D. When sending a data packet with the destination IP address 3.3.3.3, the router adds label 1026 to the packet before sending it.

Correct Answer: A

Section:

QUESTION 82

If PIM-SM is enabled on a multicast network, only after multicast trees are established between the multicast source and receivers, the receiver can receive multicast data. Which of the following statements regarding the trees are true?

- A. An RPT is established between the RP and receivers.
- B. An SPT is established between the RP and receivers.
- C. An SPT is established between the multicast source and RP.
- D. An RPT is established between the multicast source and RP.

Correct Answer: A, C

Section:

QUESTION 83

SSM is enabled on the entire IP multicast network. Which of the following statements regarding SSM are true?

- A. No RP is required.
- B. Only the RTP is used for SSM.
- C. SSM is recommended when multiple sources are available on the network and the multicast route is simple.
- D. SSM is applicable to one-to-many applications.
- E. Only the SPT is used for SSM.

Correct Answer: A, D

Section:

QUESTION 84

What advantages does IGMPv2 have over IGMPv1?

- A. The Source-Specific Query message is added.
- B. The Group-Specific Query message is added.
- C. The Leave message is added.
- D. The maximum response time field is added.

Correct Answer: C

Section:

QUESTION 85

Which of the following operations can implement fast fault detection on a multicast network?

- A. Shorten the holdtime of Join or Prune messages.
- B. Shorten the interval for sending Join or Prune messages.
- C. Shorten the interval of PIM Hello messages.
- D. Set up BFD for PM sessions between PIM SM neighbors.

Correct Answer: D

Section:

QUESTION 86

Which of the following attacks are DoS (Denial of service) attacks?

- A. Single-packet attacks
- B. Flood attacks
- C. Man-in-the-middle attacks
- D. Source IP address spoofing attacks.

Correct Answer: B

Section:

QUESTION 87

A Local Area Network Denial (LAND) attacker sends a SYN packet in which the source and destination addresses are the same as the target host's address and the source port is the same as the destination port. While the receiver waits for the final ACK packet from the sender, the connection is in half-connected mode, which wastes limited TCP resources at the receive end.

- A. TRUE
- B. FALSE

Correct Answer: B

Section:

QUESTION 88

Which of the following is not included in a digital certificate?

- A. Digital envelope
- B. Issuer



- C. Public key information
- D. Digital signature

Correct Answer: A

Section:

QUESTION 89

Which of the following are single-packet attacks?

- A. Malformed packet attacks
- B. Special control packet attacks
- C. Scanning and snooping attacks
- D. DDoS attacks

Correct Answer: A

Section:

QUESTION 90

A bookstore provides a wired network for customers to learn online. However, some users are suddenly unable to access the network. After troubleshooting, it is found that all the IP addresses in the DHCP address pool have been used up. Which of the following is the best way to solve the problem?

- A. Configure static ARP binding entries
- B. Configure IPSPG
- C. Configure DAI
- D. Limit the maximum number of DHCP snooping binding entries that can be learned on an interface.



Correct Answer: D

Section:

QUESTION 91

Assume that the traffic shaping rate is set to 100 Mbit/s on an interface and that the input bandwidth and PIR of each service are configured as shown in the table below. What is the bandwidth allocated to the EF queue after the first round of scheduling?

Queue type	Scheduling type	input bandwidth (bps)	pir (bps)
CS7	PQ	15M	25M
CS6	PQ	30M	10M
EF	WFQ, Weight=5	90M	10M
AF4	WFQ, Weight=4	10M	10M
AF3	WFQ, Weight=3	10M	15M
AF2	WFQ, Weight=2	20M	10M
AF1	WFQ, Weight=1	20M	10M
BE	LPQ	100M	50M

- A. 30 Mbit/s
- B. 90 Mbit/s

- C. 25 Mbit/s
- D. 15 Mbit/s

Correct Answer: A

Section:

QUESTION 92

The network administrator defines a traffic policy as follows:

```
[Huawei]display traffic policy user-defined
User Defined Traffic Policy Information:
Policy: p1
Classifier: c1
Operator: OR
Behavior: b1
Committed Access rate:
  CIR 256 (Kbps), PIR 0 (Kbps), CBS 48128 (byte), PBS 80128 (byte)
Color Mode: color Blind
Conform Action: pass
Exceed Action: discard
static: enable
```

The router port to which the traffic policy is applied has been idle for about 10 seconds. In this case, if there is suddenly a large amount of c1 burst traffic, what is the number of bytes in the green packets?

- A. 32 Kbytes
- B. 256 Kbytes
- C. 80128 Kbytes
- D. 48128 Kbytes

Correct Answer: D

Section:

QUESTION 93

Which of the following type of SNMP messages sent to the NMS is reliable?

- A. Get
- B. GetBulk
- C. Trap
- D. Inform
- E. Response

Correct Answer: D

Section:

QUESTION 94

Assume that BGP/MPLS IPv4 VPN configured with OSPF, LDP, and static routing has been deployed on a PE router. To enable the NSF function, which of the following protocols need to be configured to enable the GR function on the PE router?

- A. OSPF
- B. MPLS LDP



- C. BGP
- D. Static routing

Correct Answer: B

Section:

QUESTION 95

The VRRP priority cannot be set to 0, so the device that sends a VRRP packet with priority 0 stops participating in the VRRP group and notifies the backup device to become the master device right away, without waiting for the Master_Down_Interval timer to expire?

- A. TRUE
- B. FALSE

Correct Answer: A

Section:

Explanation:

Reference: <https://support.huawei.com/enterprise/en/doc/EDOC1000088755?section=j006>

QUESTION 96

Which of the following functions cannot be implemented using the EVPN Type2 route?

- A. Host MAC address advertisement
- B. Host ARP advertisement
- C. Host IP route advertisement
- D. BUM packet forwarding

Correct Answer: B

Section:

QUESTION 97

Which of the following statements regarding the VXLAN gateway is false?

- A. VXLAN Layer 3 gateways can be classified into centralized and distributed gateways.
- B. VXLAN Layer 3 gateways allow their inter-subnet VXLAN communication and access to external networks.
- C. VXLAN Layer 2 gateways are bound to VPN instances.
- D. VXLAN Layer 2 gateways enable tenants to access VXLAN and are used for communication between subnets on the same VXLAN.

Correct Answer: D

Section:

Explanation:

Reference: <https://support.huawei.com/enterprise/it/doc/EDOC1000180270/f334b5b3/gateway-classification>

QUESTION 98

Subnets of one subnet is as follows: RT=10:10 both and TR=1000:1000 export in the EVPN instance and RT=100:100 in the VPN instance. Which of the following configurations can be made for another subnet?

- A. 1000:1000 both in the EVPN instance
- B. 1000:1000 both evpn in the VPN instance



- C. 10:10 both in the VPN instance
- D. 1000:1000 export in the EVPN instance

Correct Answer: A

Section:

QUESTION 99

A VXLAN tunnel can be established between two VTEPs and shared by all VXLAN Network Identifiers (VNIs) between two NVE nodes.

- A. TRUE
- B. FALSE

Correct Answer: A

Section:

QUESTION 100

Which of the following statements regarding the IPv6 over VXLAN network is false?

- A. The IPv6 over VXLAN network indicates that the VXLAN overlay network is an IPv6 network.
- B. The IPv6 Over VXLAN network does not generate ND entries.
- C. Tunnels between Layer 2 and Layer 3 VXLAN gateways are deployed on an IPv4 network.
- D. The IPv6 over VXLAN network enables tenants to have sufficient IP address resources.

Correct Answer: C

Section:



QUESTION 101

A Bridge Domain (BD) in a VXLAN can map to multiple VNIs.

- A. TRUE
- B. FALSE

Correct Answer: B

Section:

QUESTION 102

Which of the following statements regarding the BFD one-arm-Echo function are true? (Choose two.)

- A. Local and remote discriminators must be configured for this function.
- B. After this function is enabled, the destination and source IP addresses of BFD packets are the same.
- C. This function is applicable when one device supports BFD and the other device does not.
- D. The default destination IP address of a BFD packet is 224.0.0.184.

Correct Answer: C, D

Section:

QUESTION 103

Router HW1 functions as an MPLS LSR router on the carrier's network. The router receives a labelled packet, but the label entry does not exist in the router's

LFIB. Given this information, how will the router process the packet?

- A. Router HW1 discards the packet.
- B. Router HW1 uses the default label to forward the packet.
- C. Router HW1 removes the label, searches the FIB, and uses the destination IP address to forward the packet.
- D. Router HW1 uses LDP to create an LSP and creates a path in its LFIB for the label carried in the packet.

Correct Answer: A

Section:

QUESTION 104

Which of the following statements regarding the basic MPLS forwarding process is false?

- A. When an IP packet enters an MPLS domain, the device checks whether the tunnel ID corresponding to the destination IP address of the packet is 0x0. If so, the MPLS forwarding process starts.
- B. By default, the egress node supporting PHP allocates the label with the value of 3 to the penultimate hop.
- C. A transit node replaces a label on the top of the label stack in an MPLS packet with the label assigned by the next hop.
- D. When an IP packet enters an MPLS domain, the MPLS edge device inserts a new label between the Layer 2 header and the IP header of the packet.

Correct Answer: A

Section:

QUESTION 105

In which of the following scenarios will gratuitous ARP packets be sent?

- A. A host connected to the switch sends a ping packet.
- B. The DHCP client receives an acknowledgment message from the server
- C. A new host with an IP address is connected to the network.
- D. The master and backup devices are elected in VRRP.

Correct Answer: D

Section:

QUESTION 106

What is the function of Route Target (RT) on an MPLS VPN?

- A. Allows the remote PE to determine which VPNv4 routes should not be imported to a specific VRF instance.
- B. Allows the remote CE to determine which VPNv4 routes be imported to a specific VRF instance.
- C. Allows the remote PE to determine which VPNv4 routes be imported to a specific VPN routing and forwarding (VRF) instance.
- D. Allows the remote CE to determine which VPNv4 routes should not be imported to a specific VRF instance.

Correct Answer: C

Section:

QUESTION 107

The function of the Hop Limit field in an IPv6 basic header is similar to the function of which field in an IPv4 header?

- A. Protocol



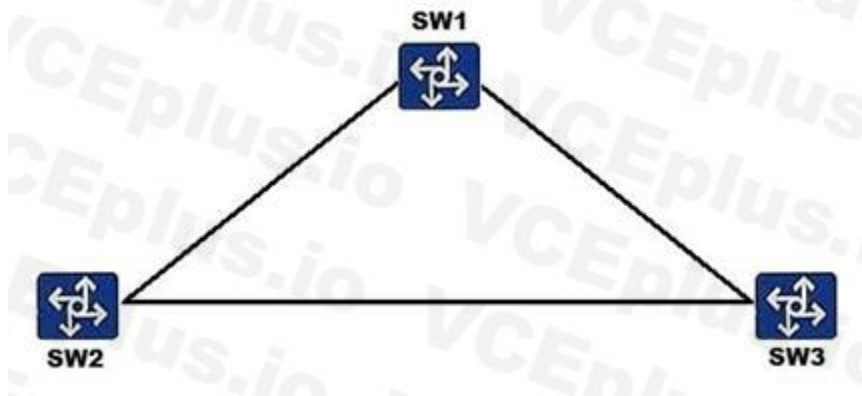
- B. Time to Live
- C. Flags
- D. Identification

Correct Answer: B

Section:

QUESTION 108

On the network shown in the figure below, SW1, SW2 and SW3 are deployed. SW1 is the root bridge, link congestion occurs between SW1 and SW2, and SW2 cannot receive configuration BPDUs sent by the root bridge. Given this information, which of the following spanning tree protection mechanisms needs to be configured to prevent problems caused by link congestion?



- A. Defense against TC BPDU attacks
- B. Root protection
- C. BPDU protection
- D. Loop protection

Correct Answer: B

Section:

QUESTION 109

Which of the following statements regarding OSPF route filtering is false?

- A. The filtering of Type 3 LSAs needs to be configured on ABRs in OSPF.
- B. In a NSSA, when external routes are imported to the OSPF router and LSAs are advertised to its neighbors, LSA filtering can be performed on the ASBR or ABR.
- C. All LSAs, except Grace LSAs, can be filtered based on interfaces in the inbound and outbound directions.
- D. When routes are calculated based on the LSDB, the filter-policy import command can be executed to filter routes. This filtering mode affects only the addition of routes in the routing table, and has no impact on the OSPF LSDB.

Correct Answer: C

Section:

QUESTION 110

Which messages are sent to the agent by the network management station (NMS) running SNMPv1?

- A. Trap, Get, and Set messages
- B. Only Trap messages



- C. Get, Set, and GetNext messages
- D. Get, Set, and GetBulk messages
- E. Get, Set, and GetNext, and GetBulk messages

Correct Answer: C

Section:

QUESTION 111

What are the differences between traffic policing and traffic shaping?

- A. For traffic shaping, you can adjust the usage of the buffer for the traffic that exceeds the CIR.
- B. For traffic policing, you can adjust the usage of the buffer for the traffic that exceeds the CIR.
- C. For traffic shaping, the router buffers excess packets until the bandwidth is available again.
- D. Traffic policing uses the token bucket algorithm and traffic shaping uses the SPD algorithm.
- E. Traffic shaping is applied in the inbound direction and traffic policing is applied in the outbound direction.

Correct Answer: C

Section:

QUESTION 112

Which of the following statements regarding URPF, IPSG, and DAI are false?

- A. IPSG checks the source IP addresses and source MAC addresses of IP packets, and DAI checks only the mapping between IP addresses and MAC addresses.
- B. DAI binding entries cannot be manually configured.
- C. URPF can be used to defend against DDoS attacks from forged sources.
- D. IPSG checks IP packets to defend against attacks using spoofed source IP addresses, and DAI checks ARP packets to filter out attack sources.

Correct Answer: C

Section:

QUESTION 113

By default, WRED is configured on a newly deployed Huawei router. Which of following statements regarding WRED are true?

- A. When traffic exceeds the minimum threshold, WRED starts to discard all inbound traffic (tail drop).
- B. Traffic with low bandwidth is more likely to be discarded than traffic with high bandwidth.
- C. WRED selectively discards multiple TCP flows to avoid global synchronization.
- D. WRED can be used to set different drop thresholds and packet loss ratios for data packets with different priorities.

Correct Answer: D

Section:

QUESTION 114

Which of the following statements regarding RADIUS are true?

- A. Authentication, authorization, and accounting are separated in RADIUS protocol.
- B. RADIUS authentication, and Portal authentication cannot be used together because users can be authenticated using the Portal server when Portal authentication is enabled.
- C. MAC address authentication does not require a user name and password. Therefore, users cannot be authenticated through RADIUS when using MAC address authentication.

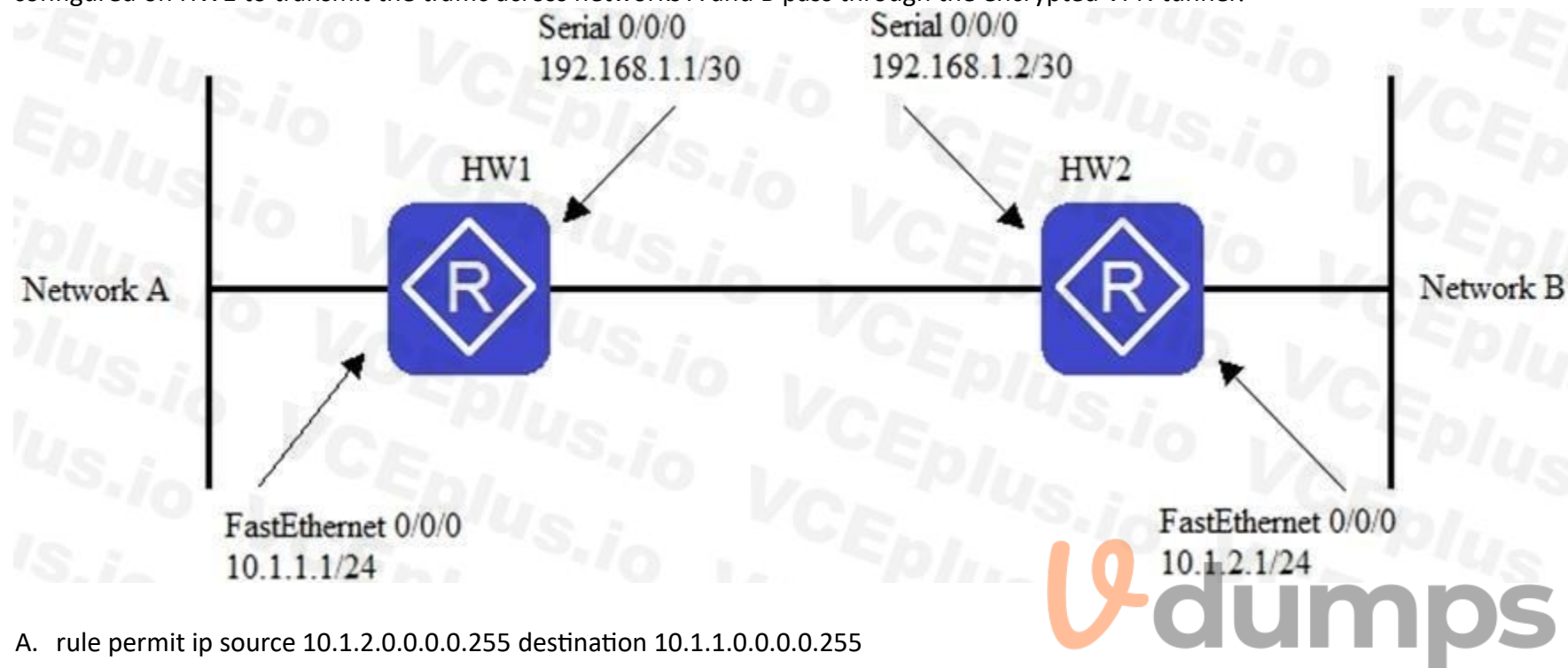
D. RADIUS supports user access in wired and wireless modes.

Correct Answer: D

Section:

QUESTION 115

Router HW1 and Router HW2 are connected to Network A and Network B respectively. Referring to the figure, if you want to set up an IPsec VPN tunnel between HW1 and HW2, which of the following ACL rules needs to be configured on HW1 to transmit the traffic across networks A and B pass through the encrypted VPN tunnel?



- A. rule permit ip source 10.1.2.0.0.0.0.255 destination 10.1.1.0.0.0.0.255
- B. rule permit ip source 10.1.1.0.0.0.0.255 destination 10.1.2.0.0.0.0.255
- C. rule permit ip source 10.1.1.0.0.0.0.255 destination 192.168.1.2.0
- D. rule permit ip source 192.168.1.1.0 destination 10.1.2.0.0.0.0.255
- E. rule permit ip source 192.168.1.1.0 destination 192.168.1.2.0

Correct Answer: B

Section:

QUESTION 116

The HTTP protocol is based on TCP. Therefore, TCP flood attacks and HTTP flood attacks are defended against in the same way.

- A. TRUE
- B. FALSE

Correct Answer: B

Section:

QUESTION 117

A DR needs to be elected from a set of candidate PIM-SM routers for multicast data forwarding on the source side or the receiver side. Which of the following statements regarding DR election is true?

- A. The PIM-SM router with the lowest DR priority is elected as the DR.
- B. The PIM-SM router with the smallest IP address is elected as the DR.

- C. The PIM-SM router with the longest interface mask is elected as the DR.
- D. DR priorities of the PIM-SM routers are compared first. If their DR priorities are the same, their interface IP addresses are then compared.

Correct Answer: D

Section:

QUESTION 118

If PIM-SM is enabled on a multicast network, an RP needs to be configured. The RP can be configured as a dynamic or static RP. Which of the following statements regarding RP configuration is true?

- A. No BSR needs to be configured when a dynamic RP is configured.
- B. When a static RP is configured, you need to configure a BSR that advertises RP information.
- C. The BSR needs to be configured as the RP backup when a dynamic RP is configured.
- D. RP information needs to be specified on all PIM routers when a static RP is configured.

Correct Answer: D

Section:

QUESTION 119

If host HW1 on the network wants to join a video conference, what will the host do?

- A. The host multicasts an IGMPv2 Membership Report message that carries the expected multicast address to the local network.
- B. The host multicasts an IGMPv2 Membership Report message with the multicast address for all PIM routers (224.0.0.2) to the local network.
- C. The host unicasts an IGMPv2 Membership Report message to the default router on the local network.
- D. The host unicasts an IGMPv2 Membership Report message to the RP.

Correct Answer: A

Section:

QUESTION 120

Which of the following statements correctly describes the corresponding MPLS TTL processing mode?

- A. On an MPLS VPN, if the structure of the MPLS backbone network needs to be shielded, the Uniform mode is recommended for VPN packets.
- B. In Uniform mode, when IP packets enter an MPLS network, the ingress node decrements the IP TTL by one and the MPLS TTL field has a fixed value.
- C. The TTL field in an MPLS label serves the same function as that in an IP packet header. That is, the TTL is used to prevent loops on an MPLS network.
- D. In Pipe mode, when IP packets enter an MPLS network, the ingress node decrements the IP TTL by one and copies this new value to the MPLS TTL field.

Correct Answer: C

Section:

QUESTION 121

Which of the following statements regarding CE dual-homing features is false?

- A. The VRFs of two PEs connected to the same CE can belong to different VPNs.
- B. In the CE dual-homing networking, loops may occur. You can use route-tag resolve this issue.
- C. A CE dual-homing network where a CE is connected to two PEs ensure high network reliability.
- D. A CE connects to the backbone network through two links that work in load balancing or primary/secondary mode.

Correct Answer: D

Section:

Explanation:

Reference: <https://support.huawei.com/enterprise/en/doc/EDOC1000178425/455e0daa/example-for-configuring-ce-dual-homing>

QUESTION 122

Level-1-2 IS can transmit Level-2 LSPs to a level-1 area. If the ATT bit in the Level-2 LSPs is set to 1, the Level-1 IS in the area can communicate with devices in other areas through the Level-1-2 IS.

- A. TRUE
- B. FALSE

Correct Answer: A

Section:

QUESTION 123

A network administrator is planning to use an automatic 6to4 tunnel to transmit IPv6 network. If the IPv4 address of the router interface is 138.14.85.210, the corresponding tunnel address should be 2001:8a0e:55d2:1:230:65ff:fe2c:9a6.

- A. TRUE
- B. FALSE

Correct Answer: B

Section:

QUESTION 124

Two community filters are configured as follows:

ip community-filter 1 permit 100:1 200:1 ip community-filter 2 permit 100:1 ip community-filter 2 permit 200:1

Which of the following statements regarding the community filters are true? (Choose two.)

- A. A BGP route matches community-filter 2 only when it carries the Community attribute values of 100:1 and 200:1.
- B. A BGP route matches community-filter 1 only when it carries the Community attribute value of 100:1 or 200:1, or both.
- C. A BGP route matches community-filter 1 only when it carries the Community attribute values of 100:1 and 200:1.
- D. A BGP route matches community-filter 2 only when it carries the Community attribute values of 100:1 and 200:1, or both.

Correct Answer: C, D

Section:

QUESTION 125

Which of the following statements regarding RD filters are true? (Choose two.)

- A. The relationship between the rules of an RD filter is "OR."
- B. If an RD filter is configured but the RD of routes does not match any RD defined in the RD filter, the default matching result is "permit."
- C. Routes are filtered according to the configuration order of multiple rules.
- D. If an RD filter is not configured but used to filter routes, the matching result is "deny".

Correct Answer: A, C

Section:

Explanation:



Reference: <https://support.huawei.com/enterprise/en/doc/EDOC1000174046/26892fde/routing-policy-configuration-commands>

QUESTION 126

Which of the following statements is true regarding the domain authentication mode md5 hello command in the IS-IS process?

- A. This command enables IS-IS Hello PDUs to carry authentication information.
- B. IS-IS SNP and LSP can be flooded normally only when the domain authentication mode and password of all routers in the same routing domain are MD5 and hello.
- C. IS-IS authentication cannot be applied to IPv6 environments.
- D. Routing domain authentication enables Level-1 and Level-2 SNPs and LSPs to carry authentication information.

Correct Answer: B

Section:

QUESTION 127

Which of the following statements regarding OSPFv3 are true?

- A. The LSAck packet contains the LSA header information, which is used for acknowledging the receipt of an LSA.
- B. The Hello packet must contain interface ID of sending interface.
- C. The Option field of Hello and DD packets is extended to 24 bits.
- D. The LSR packet contains the complete LSA header information, which is used for request updating LSAs.

Correct Answer: C

Section:

QUESTION 128

If an ABR is a Type 5/7 LSA translator in an NSSA, the ABR can aggregate Type 5 LSAs converted from Type 7 LSAs.

- A. TRUE
- B. FALSE

Correct Answer: A

Section:

QUESTION 129

Which of the following statements regarding BGP route reflectors (RRs) are true?

- A. An RR advertises routes learned from a client to all connected non-clients and clients.
- B. A backbone network is divided into multiple reflection clusters. Each RR is configured as a non-client of the other RR, and establishes full-mesh IBGP connections with each other.
- C. Cluster_List is an optional non-transitive attribute and is used to prevent loops in a cluster.
- D. The Originator_ID attributes is generated by an RR to prevent loops between clusters.

Correct Answer: C

Section:

QUESTION 130

When router R1 runs OSPF and they display ip routing-table command is executed on R1 to check the routing table, which of the following statements regarding OSPF information in the routing table is true?



- A. In the routing table, the routing entries identified by the O_ASE identifier can be learned only through route import.
- B. In the routing table, the routing entries identified by the OSPF identifier can be learned through Type 1/2/3/5 LSAs.
- C. In the routing table, the routing entries marked OSPF can be learned only through Type 1 LSAs.
- D. In the routing table, the routing entries identified by the OSPF identifier can be learned only through Type 3 LSAs.

Correct Answer: C

Section:

QUESTION 131

IS-IS elects a DIS on a broadcast network. Which of the following statements regarding DIS are true? (Choose three.)

- A. DIS preemption is supported. After successful DIS preemption, LSPs do not need to be flooded.
- B. IS-IS elects the DIS by comparing preferences. If the preferences are the same, IS-IS compares MAC addresses.
- C. On a broadcast network, the DIS sends Hello PDUs at a frequency that is three times the frequency of non-DIS routers.
- D. The DIS periodically sends CSNPs to ensure LSDB synchronization.

Correct Answer: B, C, D

Section:

QUESTION 132

In which scenarios can an AS-Path-filter be used? (Choose three.)

- A. apply clause in a route-policy
- B. Filtering routes received from BGP peers based on the AS_Path attribute. For example, the peer X.X.X.X as-path-filter import command.
- C. if-match clause in a route-policy
- D. Filtering routes sent to BGP peers based on the AS_Path attribute. For example, the peer X.X.X.X as-path-filter export command.

Correct Answer: B, C, D

Section:

QUESTION 133

Routers R1 and R2 run BGP. Both the routers reside in AS 65234. Routes of R2 exist in the BGP routing of R1 but do not exist in the IP routing table of R1. What is the cause of this problem?

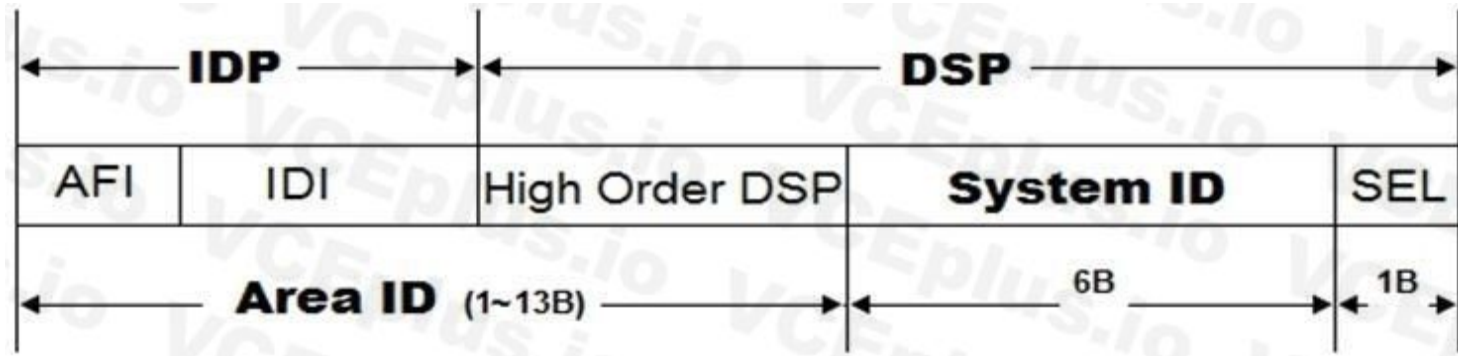
- A. BGP is disabled on both R1 and R2.
- B. Multi-hop BGP is disabled on R1.
- C. The routes are not optimal.
- D. The BGP peer relationship between R1 and R2 is in Down state.

Correct Answer: D

Section:

QUESTION 134

As shown in the figure, in IPv4 and IPv6 environments, the value of the SEL field in the IS-IS NET address is always 00.



- A. TRUE
- B. FALSE

Correct Answer: A
Section:

QUESTION 135

Which of the following statements regarding BGP route reflectors (RRs) are true?

- A. If no RR is available, IBGP peers must be fully meshed. If an RR is available, IBGP peers do not need to be fully meshed
- B. An RR can advertise routes learned from a client to the other clients and non-clients
- C. An RR can advertise routes learned from IBGP peers to all clients and non-clients
- D. An RR can advertise routes learned from non-clients to all clients

Correct Answer: A
Section:



QUESTION 136

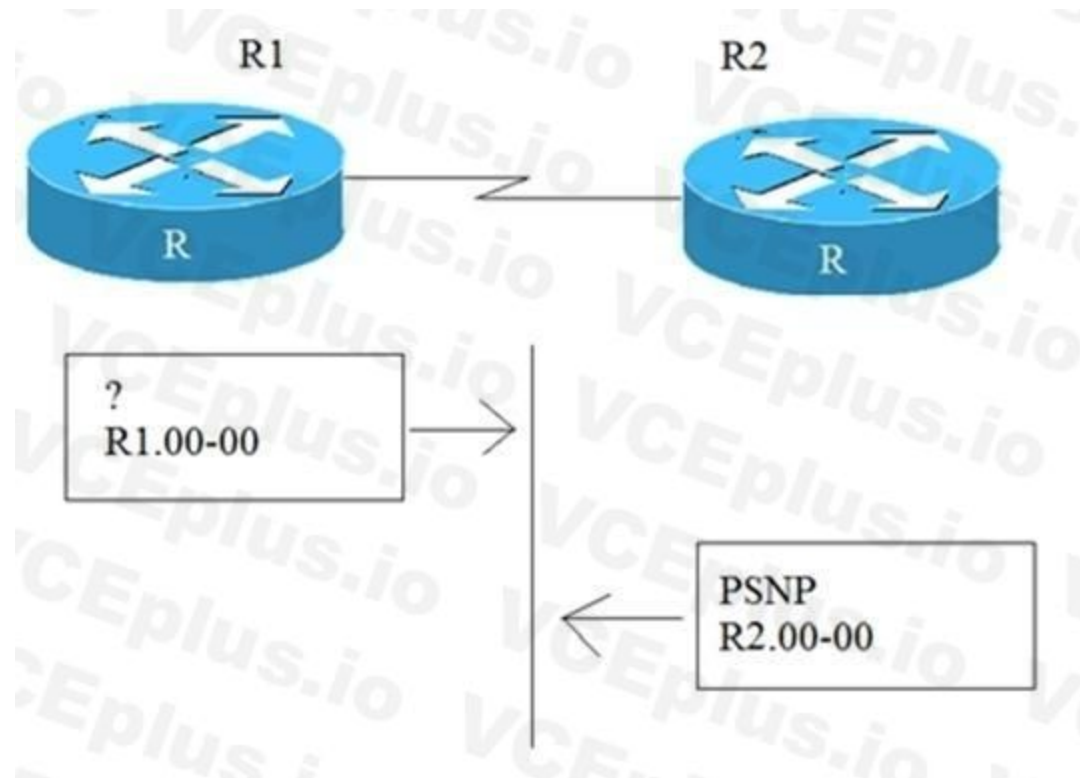
The OSPFv3 Option field is carried in all LSAs.

- A. TRUE
- B. FALSE

Correct Answer: B
Section:

QUESTION 137

As shown in the figure, the IS-IS neighbor relationship has just been established between R1 and R2. Which of the following statements regarding the LSDB synchronization between R1 and R2 is true?



- A. R1 sends a PSNP to R2
- B. R1 sends an LSP to R2
- C. R1 sends a Hello PDU to R2
- D. R1 sends a CSNP to R2

Correct Answer: D

Section:

QUESTION 138

Which of the following statements regarding control are true?

- A. For node 10, the relationship between if-match community-filter 1 and if-match as-path-filter 1 is "AND."
- B. Default OSPF, IS-IS, and BGP routes can be advertised.
- C. An AS-Path-filter filters routes based on the AS-Path attribute to affect route selection
- D. The import-route BGP command can be used to import IBGP routes

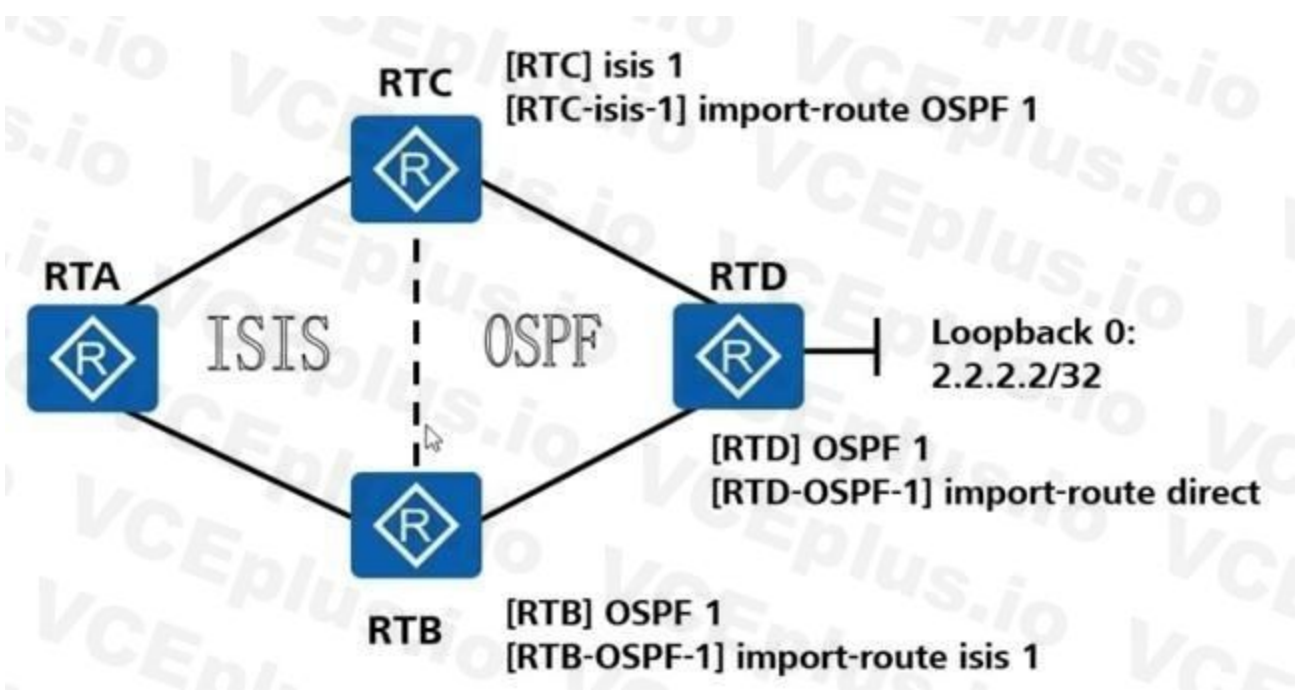
Correct Answer: C

Section:

QUESTION 139

Both IS-IS and OSPF run on a network as shown in the following figure. Route import is configured on RTB and RTC respectively. All the routers are connected through GE interfaces. Routes to the network segment 2.2.2.2/32 is imported to the OSPF process using the import-route direct command on RTD. The default settings are retained for all the other configurations. Which of the following statements regarding this network is false?





- A. The following configuration can be performed on RTC to filter out only routes to the network segment 2.2.2.2/32 when RTC imports routes:

```
[RTC] ip ip-prefix 10 index 1 deny 2.0.0.0 8 less-equal 32
[RTC-isis-1] filter-policy ip-prefix 10 import
```
- B. On RTB, adjust the IS-IS preference to 160 to avoid generation of sub-optimal routes on the network
- C. The following configuration can be performed on RTC to filter out routes from RTD to the network segment 2.2.2.2/32 when RTC imports OSPF routes:

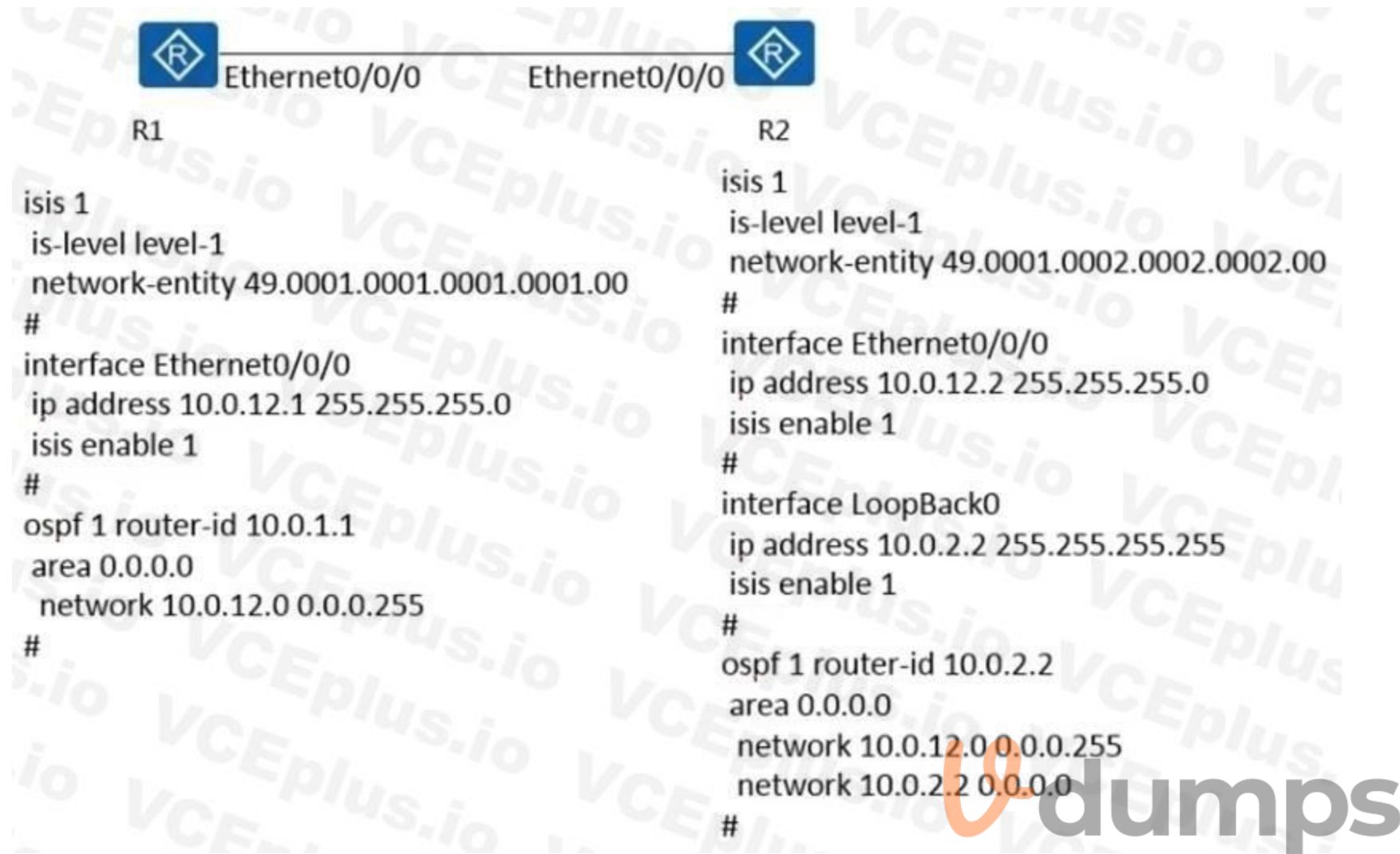
```
[RTC-acl-basic-2001] rule 5 deny source 2.0.0.0 0.255.255.255
[RTC-acl-basic-2001] rule 10 permit
[RTC-isis-1] filter-policy 2001 import
```
- D. RTB learns that RTA is the next hop of the route to the network segment 2.2.2.2/32

Correct Answer: C

Section:

QUESTION 140

The configurations of two routers in a company are shown. Which of the following statements regarding the routing table of R1 is true?



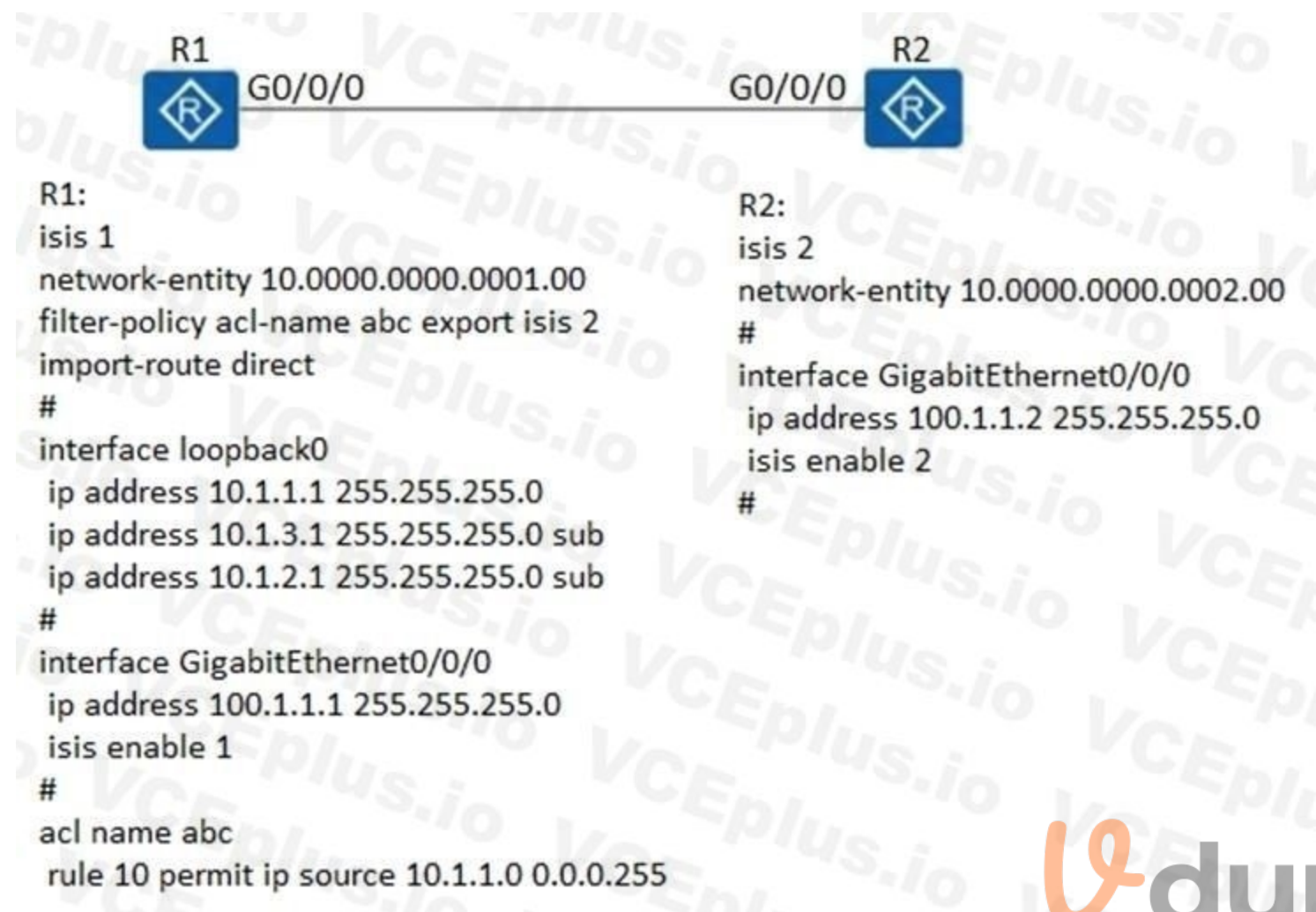
- A. The IP routing entries whose destination network segment is 10.0.2.2/32 on R1 can be generated through OSPF only when the IS-IS preference of R2 is changed to 5
- B. If the IS-IS preference of R1 is changed of R1 is changed to 5, the IP routing entries whose destination network segment is 10.0.2.2/32 on R1 are generated through OSPF
- C. If the IS-IS preference of R1 is changed to 5, the IP routing entries whose destination network segment is 10.0.2.2/32 on R1 are generated through IS-IS
- D. If the IS-IS preference of R2 is changed to 5, the IP routing entries whose destination network segment is 10.0.2.2/32 on R1 are generated through IS-IS

Correct Answer: C

Section:

QUESTION 141

Based on the scenario shown, which statement about R2 is true?



- A. R2 can receive LSPs from R1, but cannot add the routing information in the LSPs to the routing table
- B. R2 can learn all routes advertised by R1
- C. R2 can learn only the route 10.1.1.0/24
- D. R2 can learn the routes 10.1.2.0/24 and 10.1.3.0/24

Correct Answer: A

Section:

QUESTION 142

Policy-Based Routing (PBR) needs to be configured on a router to enable specified traffic to be forwarded through a specified interface. When PBR is used, which two types of information can be specified to enable traffic forwarding along a specific path?

- A. Type of Service and bandwidth usage
- B. Source IP address and specific protocol (such as FTP and HTTP)
- C. TTL and source IP address of packets
- D. Source IP address and Layer 2 source address

Correct Answer: B

Section:

QUESTION 143

A router is connected to two EBGP peers through two parallel serial cables. What method can be used to achieve bidirectional load balancing between the EBGP peers?

- A. Run the `ebgp-load-balance` command on the EBGP peers.
- B. No method is needed. BGP automatically implements load balancing among different ASs through available links.
- C. Establish an EBGP peer relationship through loopback interfaces, and configure the loopback interfaces as update sources. In each AS, import two equal-cost routes to the loopback interface of each EBGP peer to the IGP process. In addition, run the `ebgp-max-hop` and `next-hop-local` commands.
- D. Configure an EBGP peer relationship through loopback interfaces, and configure the loopback interfaces as update sources. In each AS, enable two equal-cost routes to the loopback interface on each EBGP peer in the IGP process. In addition, run the `next-hop-local` command.

Correct Answer: C

Section:

QUESTION 144

OSPFv3 and IS-IS are both running on a router, and the OSPFv3 routes need to be imported into IS-IS. Given this information, which of the following import configurations must be made?

A.

```
[Huawei]isis 1
[Huawei-isis-1]network-entity 47.0001.0000.0000.0002.00
[Huawei-isis-1]ipv6 enable topology standard
[Huawei-isis-1]ipv6 import-route ospfv3 1 level-1
[Huawei-isis-1]quit
[Huawei]ospfv3 1
[Huawei-ospfv3-1]router-id 2.2.2.2
```

B.

```
[Huawei]isis 1
[Huawei-isis-1]network-entity 47.0001.0000.0000.0002.00
[Huawei-isis-1]import-route ospfv3 1
[Huawei-isis-1]quit
[Huawei]ospfv3 1
[Huawei-ospfv3-1]router-id 2.2.2.2
```

C.

```
[Huawei]isis 1
[Huawei-isis-1]is-level level-1
[Huawei-isis-1]network-entity 47.0001.0000.0000.0002.00
[Huawei-isis-1]import-route ospfv3 1 level-1
[Huawei-isis-1]quit
[Huawei]ospfv3 1
[Huawei-ospfv3-1]router-id 2.2.2.2
```

D.



```
[Huawei]isis 1
[Huawei-isis-1]is-level level-1
[Huawei-isis-1]network-entity 47.0001.0000.0000.0002.00
[Huawei-isis-1]ipv6 enable topology standard
[Huawei-isis-1]ipv6 import-route ospfv3 1
[Huawei-isis-1]quit
[Huawei]ospfv3 1
[Huawei-ospfv3-1]router-id 2.2.2.2
```

E.

```
[Huawei]isis 1
[Huawei-isis-1]is-level level-1
[Huawei-isis-1]network-entity 47.0001.0000.0000.0002.00
[Huawei-isis-1]ipv6 enable topology standard
[Huawei-isis-1]ipv6 import-route ospfv3 1 level-1
[Huawei-isis-1]quit
[Huawei]ospfv3 1
[Huawei-ospfv3-1]router-id 2.2.2.2
```

Correct Answer: E

Section:

QUESTION 145

Which of the following statements regarding the Multi-VPN-instance CE (MCE) is false?

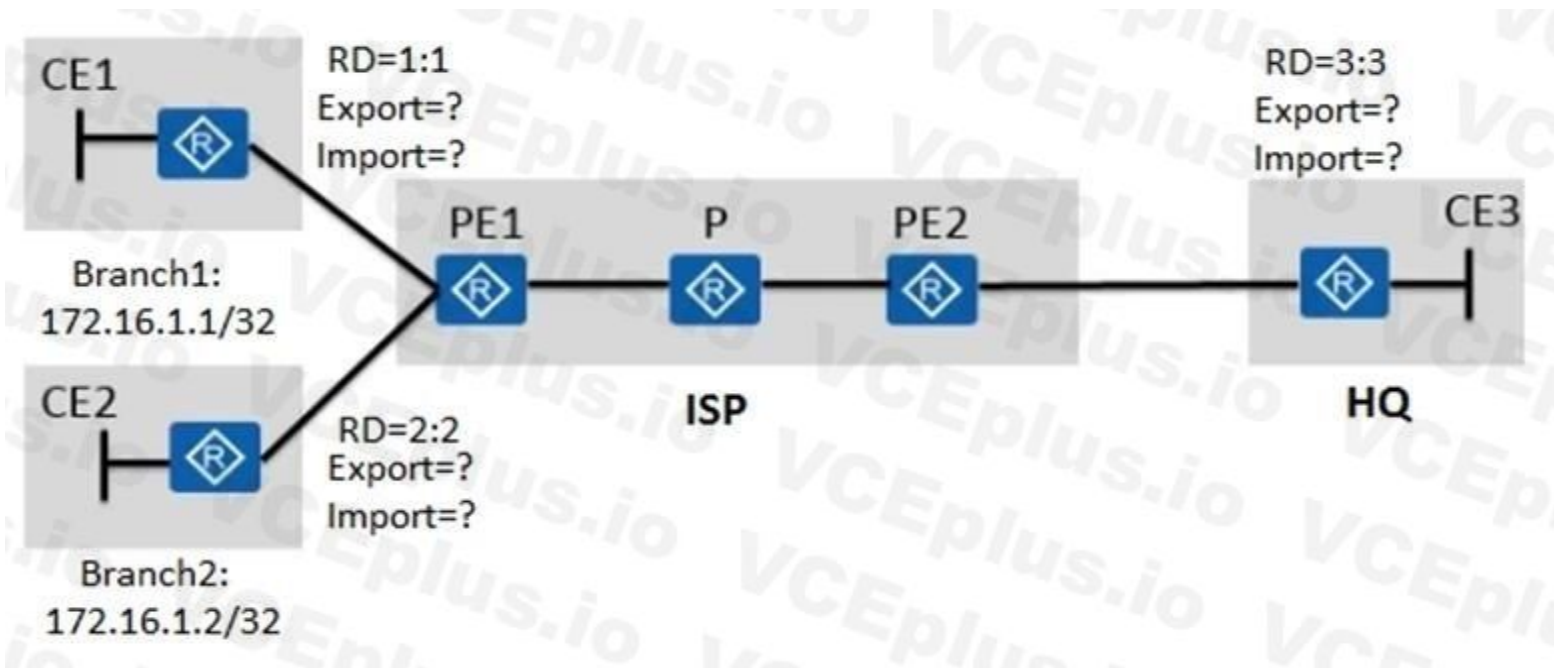
- A. An MCE device creates a routing table for each VPN and binds each VPN instance to its interfaces
- B. The MCE has been bound to a VPN. Therefore, no VPN needs to be bound to the PE connected to the MCE
- C. Based on the interface for receiving routing information, the MCE determines the origin of the routing information and adds the routing information to the routing table of the corresponding VPN
- D. The MCE can connect to multiple VPNs. The MCE solution isolates services of different VPNs while reducing the cost of network devices

Correct Answer: B

Section:

QUESTION 146

In the Hub-Spoke networking of MPLS BGP VPN shown in the figure below, users want to configure branches to communicate only with the headquarters but no other branches. To achieve this, which of the following solutions regarding RT settings can be used?



- A. Headquarters: Import Target: 2:2; Export Target: 3:3
Branch 1: Import Target: 3:3; Export Target: 1:1
Branch 2: Import Target: 3:3; Export Target: 2:2
- B. Headquarters: Import Target: 12:3; Export Target: 3:12
Branch 1: Import Target: 3:12; Export Target: 12:3
Branch 2: Import Target: 3:12; Export Target: 12:3
- C. Headquarters: Import Target: 1:1; Export Target: 3:3
Branch 1: Import Target: 3:3; Export Target: 1:1
Branch 2: Import Target: 3:3; Export Target: 2:2
- D. Headquarters: Import Target: 12:3; Export Target: 12:3
Branch 1: Import Target: 12:3; Export Target: 12:3
Branch 2: Import Target: 12:3; Export Target: 12:3



Correct Answer: B
Section:

QUESTION 147

In inter-AS VPN Option B mode, two Autonomous System Boundary Routers (ASBRs) need to exchange public network LSP labels once during packet forwarding.

- A. TRUE
- B. FALSE

Correct Answer: A
Section:
Explanation:

Reference: <https://support.huawei.com/enterprise/my/doc/EDOC1100033725/19aa8610/inter-as-vpn>

QUESTION 148

A network administrator plans to migrate IGMPv2 to IGMPv3 on the multicast network. What advantages does IGMPv3 have over IGMPv2?

- A. IGMPv3 deletes suppression of IGMPv3 Membership Report messages

- B. IGMPv3 deletes the function of matching all sources through wildcard belong to specific multicast group
- C. IGMPv3 enables a host to join a specified multicast group that excludes a specified multicast source
- D. IGMPv3 adds Request-to-Send and Clear-to-Send messages between source and local IGMP queries
- E. IGMPv3 enables a host to join a specified multicast group that includes a specified multicast source

Correct Answer: E

Section:

QUESTION 149

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

Correct Answer: D

Section:

QUESTION 150

Which of the following statements regarding Security Association (SA) in IPsec is false?

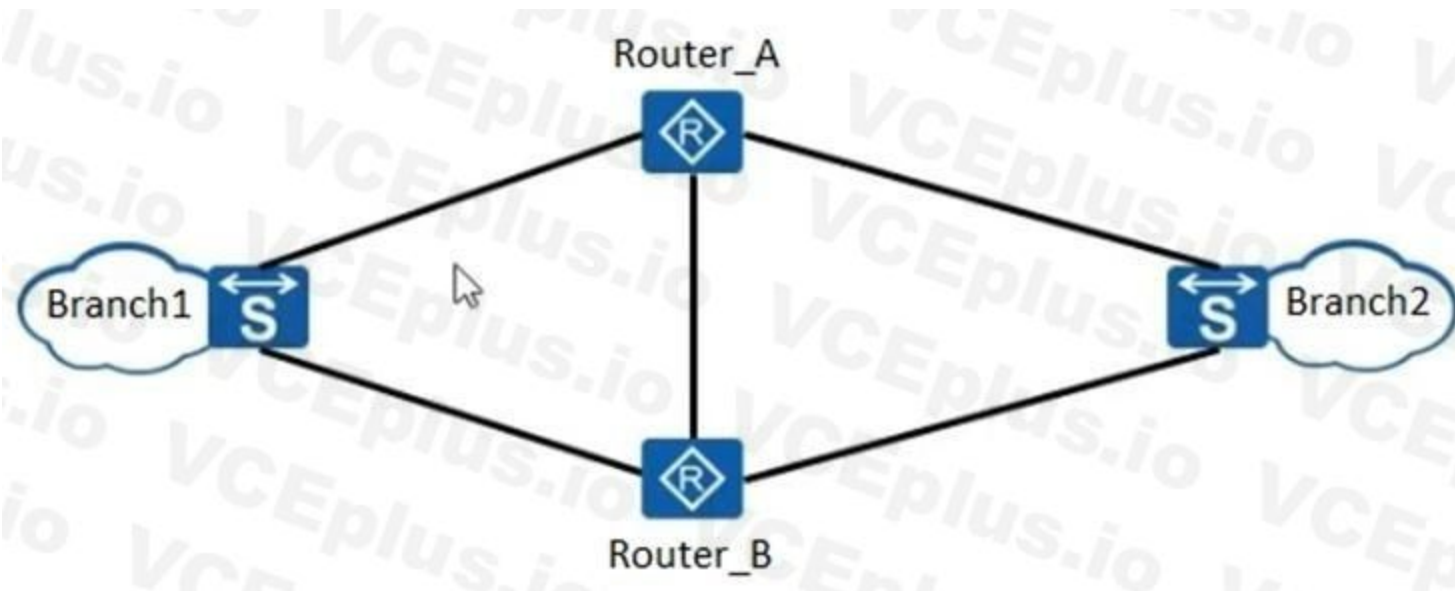
- A. An IPsec VPN connection can be established only when the bidirectional SA exists between IPsec peers
- B. An SA is identified by three parameters: security parameter index (SPI), destination IP address, and security protocol ID (AH or ESP)
- C. You can run the display ipsec sa command to view the encryption algorithm used and traffic of interest between IPsec peers
- D. IPsec can only use symmetric encryption algorithms to encrypt and decrypt data

Correct Answer: D

Section:

QUESTION 151

As shown in the figure, the routers load balances the traffic between Branch network 1 and Branch network 2. In this case, URPF in loose mode must be configured on a physical interface to defend against attacks using spoofed source IP addresses.



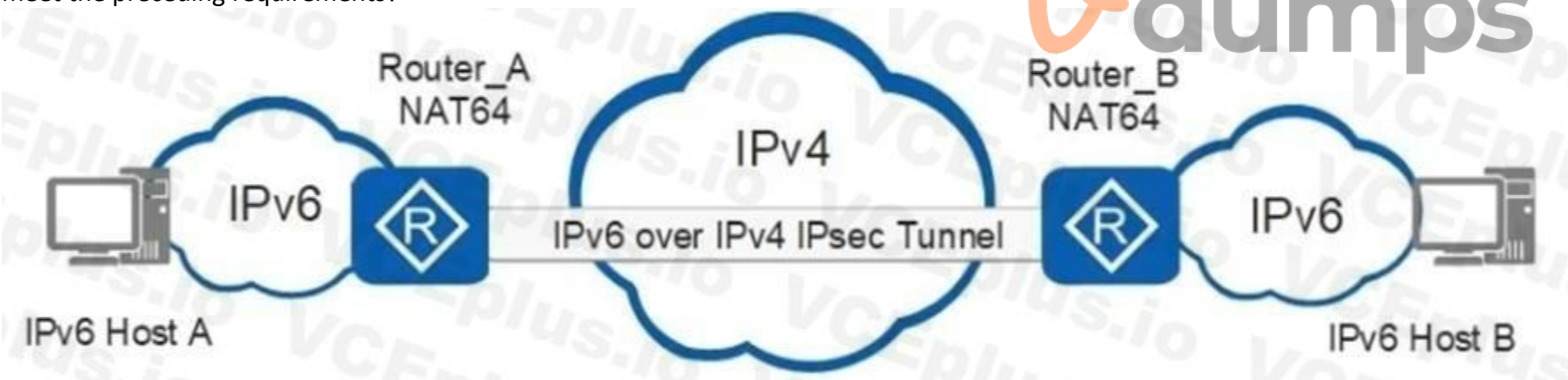
- A. TRUE
- B. FALSE

Correct Answer: A

Section:

QUESTION 152

As shown in the figure, two IPv6 networks need to access the IPv4 network. An IPsec tunnel needs to be established between the two IPv6 networks to enable communication. Which of the following encapsulation modes can meet the preceding requirements?



- A. AH+ transmission mode
- B. AH+ tunnel mode
- C. ESP+ tunnel mode
- D. All the preceding options are incorrect

Correct Answer: D

Section:

QUESTION 153

Which of the following statements regarding 802.1X authentication, RADIUS authentication, and HWTACACS authentication are true?

- A. A user cannot be authenticated by both RADIUS authentication and 802.1X authentication.

- B. A user cannot be authenticated by both RADIUS authentication and HWTACACS authentication.
- C. A user can be authenticated by both RADIUS authentication and HWTACACS authentication. This is more secure than using just one authentication method.
- D. Users can access a network through 802.1X authentication, and can be authenticated through RADIUS authentication.

Correct Answer: B

Section:

QUESTION 154

A family user has subscribed to a bandwidth of 10 Mbit/s. To improve user experience, the carrier ensures a rate of 12 Mbit/s during tests. If token bucket technology is used to cope with this requirement, which of the following methods is optimal?

- A. cir 10000 cbs 12000 pbs 12000
- B. cir 8000 pir 12000
- C. cir 10000 pir 12000
- D. cir 10000 cbs 10000 pbs 12000

Correct Answer: D

Section:

QUESTION 155

A new office needs to use a router as the DHCP server. Which of the following items need to be configured when the DHCP server is configured to provide the DHCP service for the office?

- A. Manually binding a specified IP address to a specified terminal
- B. Timeout period of a ping packet
- C. Excluding idle IP addresses from the DHCP server
- D. Startup file of the DHCP server
- E. DHCP address pool



Correct Answer: E

Section:

QUESTION 156

Which of the following statements regarding VRRP is true?

- A. Both VRRPv2 and VRRPv3 support authentication
- B. VRRPv3 does not support authentication, whereas VRRPv2 supports authentication
- C. The VRRP priority of the master IP address owner is 255. Therefore, the priority can be a value in the range from 0 to 254.
- D. VRRPv2 only applies to an IPv4 network, and VRRPv3 applies only to an IPv6 network

Correct Answer: B, C, D

Section:

Explanation:

Reference: <https://support.huawei.com/enterprise/en/doc/EDOC1000178318/6e22bde4/vrrpv2-and-vrrpv3-advertisement-packets>

QUESTION 157

In a BGP EVPN distributed gateway scenario, which of the following packet types is required to implement VM migration?

- A. Type 1
- B. Type 2
- C. Type 3
- D. Type 5
- E. Type 4

Correct Answer: B

Section:

Explanation:

Reference: <https://support.huawei.com/enterprise/my/doc/EDOC1000180270/5d103d4d/configuring-vxlan-in-distributed-gateway-mode-using-bgp-evpn>

QUESTION 158

The precedence field in VLAN (802.1Q) data encapsulation has six bits.

- A. TRUE
- B. FALSE

Correct Answer: B

Section:

QUESTION 159

On a switch with factory default settings, its MAC address table is empty. Host A connected to the switch sends the first unicast data frame. What operation will the switch perform after receiving the data frame?

- A. The switch discards the data frame
- B. The switch records the source MAC address of the data frame and floods the data frame out of all interfaces except the one it received the frame
- C. The switch buffers the data frame and forwards the data frame after the destination host sends a data frame
- D. The switch forwards the data frame out through an interface based on the destination MAC address of the data frame

Correct Answer: B

Section:

QUESTION 160

Which of the following configurations can be used to prevent users from connecting a hub to an access port on a switch allowing multiple device to access the network?

A.

```
[Huawei]interface GigabitEthernet 0/0/1
[Huawei-GigabitEthernet0/0/1]port link-type access
[Huawei-GigabitEthernet0/0/1]port-security enable
```

B.

```
[Huawei]interface GigabitEthernet 0/0/1
[Huawei-GigabitEthernet0/0/1]port link-type trunk
[Huawei-GigabitEthernet0/0/1]port trunk allow-pass vlan 10
```

C.

```
[Huawei]interface GigabitEthernet 0/0/1
[Huawei-GigabitEthernet0/0/1]port link-type access
[Huawei-GigabitEthernet0/0/1]ipsg enable
```

D.

```
[Huawei]interface GigabitEthernet 0/0/1
[Huawei-GigabitEthernet0/0/1]port link-type access
[Huawei-GigabitEthernet0/0/1]port-isolate enable
```

Correct Answer: A

Section:

QUESTION 161

On a LAN running STP (802.1D), which of the following parameters will not be received by a non-root switch from the root switch?

- A. Forward delay
- B. Hold time
- C. MaxAge
- D. Hello time
- E. Root Path cost

Correct Answer: B

Section:

QUESTION 162

When a router receives an LSP on a broadcast network or a P2P network enabled with IS-IS, the router needs to send a PSNP to ensure LSDB synchronization.

- A. TRUE
- B. FALSE

Correct Answer: A

Section:

QUESTION 163

Which of the following statements regarding OSPFv3 Link-LSAs is true?

- A. The Link-LSA contains both the link-local address and all IPv6 prefixes of the interface
- B. The Link-LSA contains both the link-local address of the interface and all IPv6 prefixes of the same area on the router
- C. The Option field exists in an LSA header rather than the data area of a Link-LSA
- D. If the PrefixOptions field of a prefix in the Link-LSA is 0x00, the prefix is not involved in the IPv6 unicast calculation

Correct Answer: B

Section:

QUESTION 164

Regular expressions can be used in Community-filter and AS-Path-filter to filter routes.

- A. TRUE

B. FALSE

Correct Answer: A

Section:

QUESTION 165

Which of the following statements regarding an OSPF virtual link is true?

- A. A virtual link can be used to solve the problem of a non-continuous Area 0
- B. A virtual link uses the IP address of the outbound interface as the link address
- C. A virtual link can be established in any area, and the virtual link belongs to the area after it is established
- D. A virtual link with a cost of 0 is the optimal link

Correct Answer: A

Section:

QUESTION 166

The Next Header field only exists in the basic header of an IPv6 packet, and its function is only to indicate whether the IPv6 packet has an extension header.

- A. True
- B. False

Correct Answer: A

Section:



QUESTION 167

Which of the following statements regarding features of the inter-AS VPN Option C are true?

- A. VPN routes are directly exchanged between the ingress PE and the egress PE, and the routes do not need to be stored or advertised by the intermediate devices.
- B. The inter-AS VPN Option C mode is not applicable to scenarios where multiple Ass are spanned.
- C. A maximum of two labels are required for packet forwarding.
- D. ASBRs do not store VPNv4 routes or advertise VPNv4 routes to each other.

Correct Answer: A

Section:

QUESTION 168

Which of the following statements correctly describe the LDP session establishment process?

- A. The label switching router (LSR) with the larger transport address initiates a TCP connection.
- B. After two devices receive a Keepalive message from each other, the LDP session is successfully established.
- C. LDP Neighbor Discovery Hello messages are encapsulated using TCP with the multicast destination address of 224.0.0.2.
- D. After the TCP connection is successfully established, the active party sends an Initialization message to negotiate with the passive party about parameters used for establishing an LDP session.

Correct Answer: A

Section:

QUESTION 169

On an MPLS BGP VPN where MPLS Penultimate Hop Popping (PHP) is disabled, when packets arrive at the last-hop PE, packets carry two MPLS labels which can be the same value.

- A. True
- B. False

Correct Answer: B

Section:

QUESTION 170

On a multicast network, in which of the following situations can multicast traffic not be forwarded?

- A. There are not any RPF route in the router
- B. The upstream router discards the received PIM Join message
- C. PIM is disabled on the RPF interface
- D. On a multi-router egress network, the local router is not a DR

Correct Answer: C

Section:

QUESTION 171

Which of the following statements regarding HTTPS is false?

- A. A router cannot detect the viruses in HTTPS traffic through the IPS technology
- B. HTTPS uses SSL to ensure data security
- C. When a user attempts to visit a website using HTTPS, if the user's browser cannot identify the digital certificate of the website, the user will be unable to access the website
- D. By default, the HTTPS protocol uses TCP port 443

Correct Answer: C

Section:

