

H12-261.79q

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H12-261



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Exam A

HCIE-Routing&Switching (written) (Huawei Certified Internetwork Expert-Routing & Switching)

**QUESTION 1**

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



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- 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:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 2**

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: (none)**

**Explanation**

**Explanation/Reference:**

### **QUESTION 3**

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: (none)**

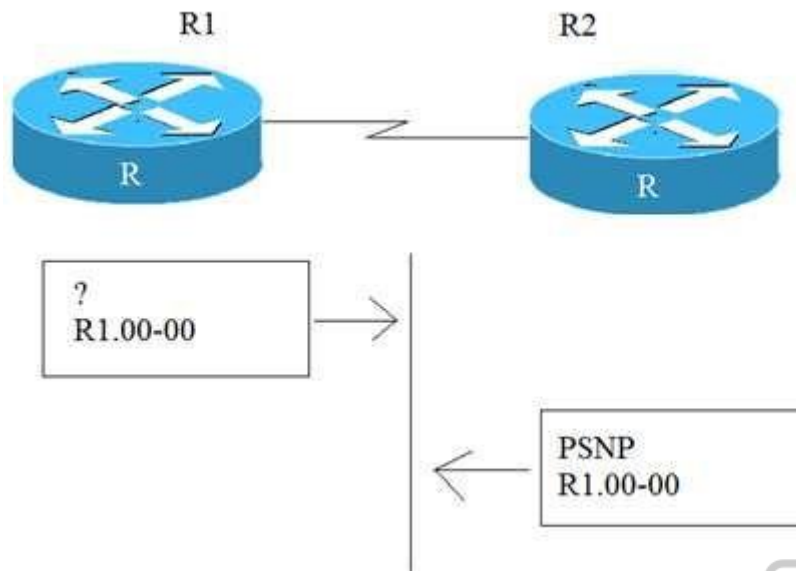
**Explanation**

**Explanation/Reference:**



### **QUESTION 4**

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 5

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:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 6

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:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 7

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:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

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:** ADE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

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:** ABE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 11

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 12

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:** BCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 13

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:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 14

On a RIPv6 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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 15

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 16

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?



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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 17

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:** BDE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

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:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

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:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

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:** ABF

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 21

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 22

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:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

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:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 24**

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:** BCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

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:** ADF

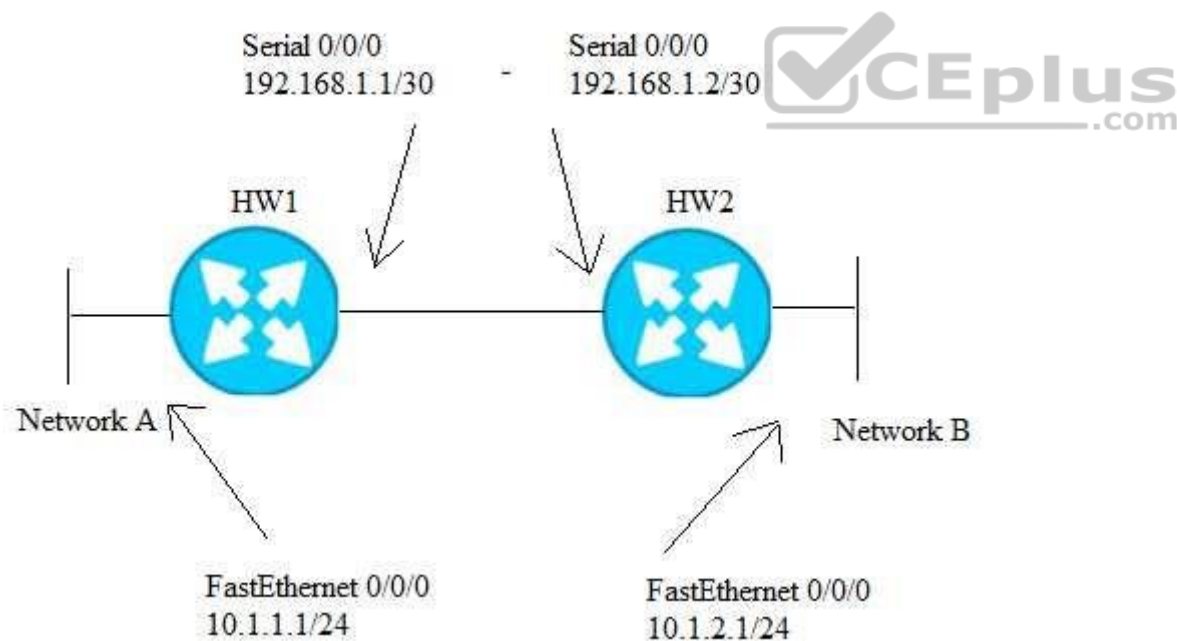
**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 26

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 27

Before configuring AAA, you need to define the RADIUS server. The following commands can be used to define it. [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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 28

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:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 29

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:** CDE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 30

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 on 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:** ABC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 31

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:** BCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**



### QUESTION 32

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:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 33**

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



[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

[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%	0	0
XGigabitEthernet0/0/1	up	up	0.32%	0.32%	0	0
XGigabitEthernet0/0/2	up	up	0.32%	0.32%	0	0

[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.

A.

B. C.

```
[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.

D.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [http://support.huawei.com/online/toolweb/ptmngsys/Web/tsrev\\_ce/en/content/ce/08\\_edesk\\_dc\\_mac-address\\_flapping/edesk\\_dc\\_macaddress\\_flapping\\_edesk002.html](http://support.huawei.com/online/toolweb/ptmngsys/Web/tsrev_ce/en/content/ce/08_edesk_dc_mac-address_flapping/edesk_dc_macaddress_flapping_edesk002.html)

#### **QUESTION 34**

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:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 35

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:** (none)

**Explanation**

**Explanation/Reference:**

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

### QUESTION 36

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:** (none)

**Explanation**



**Explanation/Reference:**

### QUESTION 37

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

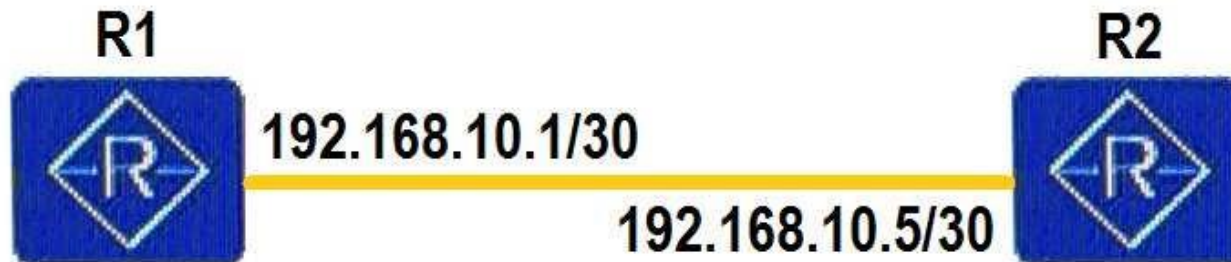
**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 38

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:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 39

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:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

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

- A. TRUE
- B. FALSE

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

Which of the following attributes cannot be directly referenced by the if-match clause of route-policies?

- A. Community-filter
- B. IP-prefix
- C. AS-Path-filter
- D. Regular expression



**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <http://support.huawei.com/enterprise/pages/doc/subfile/docDetail1.jsp?contentId=DOC1000027467&partNo=10152>

**QUESTION 42**

The figure shows router data. Which of the following statements is false?



<R3>display isis lsdb

Database information for ISIS(1)

Level-1 Link State Database

LSPID	Seq Num	Checksum	Holdtime	Length	ATT/P/OL
0001.0000.0000.00-00	0x00000015	0xdd22	491	109	0/0/0
0002.0000.0000.00-00	0x00000011	0xfe96	675	88	1/0/0
0002.0000.0000.01-00	0x00000006	0xbd04	656	55	0/0/0
0003.0000.0000.00-00*	0x00000027	0xffe7	676	119	1/0/0

Total LSP(s) : 4

\*(In TLV) -Leaking Route, \*(By LSPID) -Self LSP, +-Self LSP(Extended),  
ATT-Attached, P-Partition, OL-Overload

Level-2 Link state Database

LSPID	Seq Num	Checksum	Holdtime	Length	ATT/P/OL
0002.0000.0000.00-00	0x0000000b	0x11ff	678	102	0/0/0
0002.0000.0000.01-00	0x00000002	0xc5ff	656	55	0/0/0
0003.0000.0000.00-00*	0x0000002d	0xb696	674	130	0/0/0
0003.0000.0000.03-00*	0x00000008	0xac40	673	56	0/0/0
0004.0000.0000.00-00	0x00000010	0x90cb	861	88	0/0/0

Total LSP(s) : 5

\*(In TLV) -Leaking Route, \*(By LSPID) -Self LSP, +-Self LSP(Extended),  
ATT-Attached, P-Partition, OL-Overload

- A. The system ID of R3 is 0003.0000.0000.
- B. R3 is a level-1-2 router.
- C. R3 is the DIS of a Level-1 link.
- D. R3 is the DIS of a Level-2 link.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 43

Which of the following configurations regarding OSPFv3 route aggregation are true?

- A. [Huawei]ospfv3 1  
[Huawei-ospfv3-1]asbr-summary fc00:0:0:: 48 cost 20 tag 100
- B. [Huawei]ospfv3 1  
[Huawei-ospfv3-1]abr-summary fc00:0:0:: 48 cost 400
- C. [Huawei]ospfv3 1  
[Huawei-ospfv3-1]area 1  
[Huawei-ospfv3-1-area-0.0.0.1]abr-summary fc00:0:0:: 48 cost 400
- D. [Huawei]ospfv3 1  
[Huawei-ospfv3-1]area 1  
[Huawei-ospfv3-1-area-0.0.0.1]asbr-summary fc00:0:0:: 48 cost 20 tag 100
- E. [Huawei]interface gigabitethernet 1/0/0  
[Huawei-GigabitEthernet1/0/0]asbr-summary fc00:0:0:: 48 cost 20

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://support.huawei.com/enterprise/en/doc/EDOC1000102430?section=k00a>

#### QUESTION 44

Which layers are shared in the OSI reference model and TCP/IP model?

- A. Presentation layer
- B. Application layer



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- C. Transport layer
- D. Session layer
- E. Data link layer

**Correct Answer:** BCE

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 45

Which of the following statements regarding IS-IS route leaking are true?

- A. IS-IS route leaking can be configured in IPv6 environments.
- B. In IS-IS route leaking, the routes to be leaked cannot be summary routes.
- C. IS-IS route leaking will not cause neighbor flapping.
- D. IS-IS route is used to prevent route loops.
- E. IS-IS route leaking can be configured on Level-1 routers.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 46

Which of the following statements regarding IS-IS LSP fragment extension is true?

- A. LSP fragment extension enables an IS-IS router to generate multiple LSP fragments to carry more IS-IS information.
- B. An IS-IS router can generate a maximum of 1024 LSP fragments.
- C. LSP fragment extension is implemented by adding virtual systems, with a maximum of 1000 virtual systems supported.
- D. LSP fragment extension is also valid for Hello PDUs.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 47

Which of the following statements regarding IS-IS route summarization is true?

- A. Route summarization can be configured and takes effect on all types of routers.
- B. Route summarization takes effect only on Level-2 routers.
- C. Route summarization takes effect only on Level-1 routers.
- D. Route summarization takes effect only on Level-1-2 routers.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://support.huawei.com/enterprise/en/doc/EDOC1100069334/8552081d/configuring-is-is-route-summarization>

#### QUESTION 48

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 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:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

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:** (none)

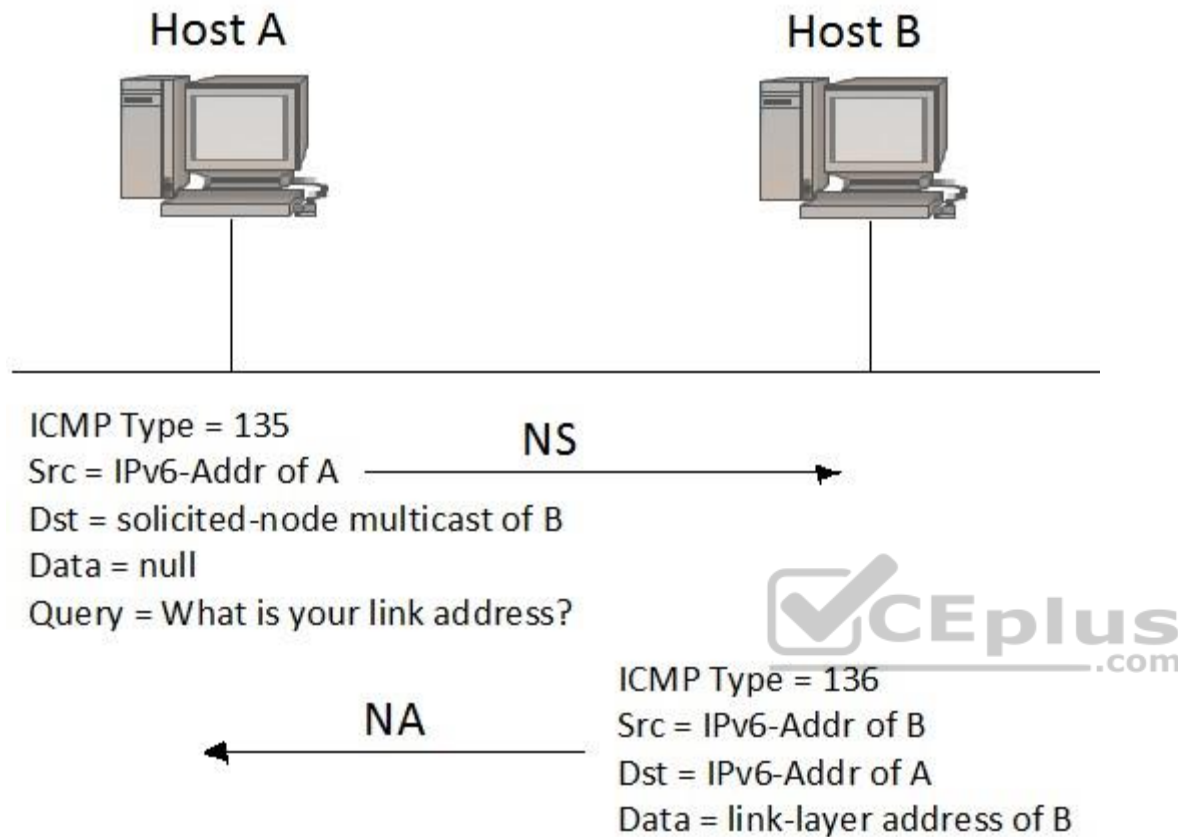
**Explanation**

**Explanation/Reference:**



**QUESTION 50**

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



- A. TRUE
- B. FALSE

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 51**

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 52

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 53

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 54

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 55

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: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 56

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	-GE0/0/2	
1.1.1.1/32	1027/1024	-GE0/0/2	
2.2.2.2/32	NULL/3	-GE0/0/2	
2.2.2.2/32	1028/3	-GE0/0/2	
3.3.3.3/32	NULL/3	-GE0/0/0	
3.3.3.3/32	1026/3	-GE0/0/0	
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: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 57

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:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 58

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 59

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:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 60**

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:** (none)

**Explanation**

**Explanation/Reference:**



#### **QUESTION 61**

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:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 62**

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:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 63

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:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 64

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: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 65**

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: (none)**

**Explanation**

**Explanation/Reference:**



**QUESTION 66**

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: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 67**

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

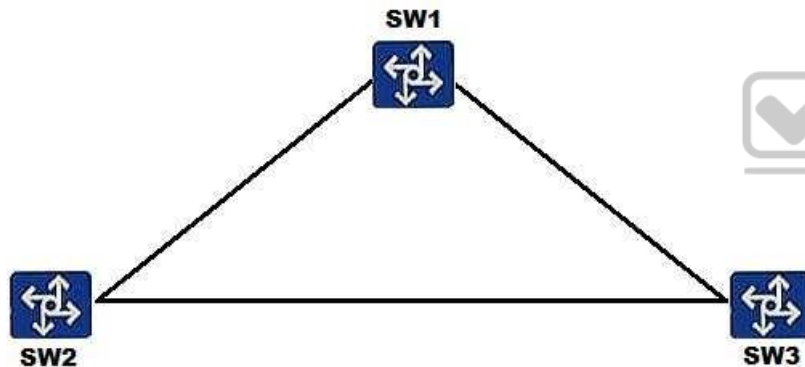
**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 68

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:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 69**

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: (none)**

**Explanation**

**Explanation/Reference:**



**QUESTION 70**

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: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 71**

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 72

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 73

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 74

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:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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

#### QUESTION 75

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 76

If an ABR is 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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 77

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 attribute is generated by an RR to prevent loops between clusters.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 78

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:** BCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 79**

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:** BCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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