



**Vendor:** Huawei

**Exam Code:** H12-261

**Exam Name:** HCIE-Routing & Switching (Written) V3.0

**Version:** DEMO

#### QUESTION 1

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

- A. When the DSCP value is EF, data is forwarded in expedited forwarding mode
- B. CS in DSCP classifies data based on eight priorities
- C. DSCP can represent the data priority as well as the packet drop probability
- D. The DSCP value can be 0. When the value is 0, the default packet forwarding mechanism is used

**Answer:** A

#### QUESTION 2

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

**Answer:** A

#### QUESTION 3

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

**Answer:** B

#### QUESTION 4

Which of the following statements are true?

- 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

**Answer:** CD

#### QUESTION 5

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

- 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

**Answer:** CDE

#### QUESTION 6

Which of the following statements about VRRP load balancing are false?

- 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.

**Answer:** ABC

#### QUESTION 7

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

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

**Answer:** BCD

#### QUESTION 8

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.

**Answer: A**

#### QUESTION 9

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<br>1536        | 0<br>0            |                     |
| arp-request | 2003<br>140044    | 0<br>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.

**Answer: A**

#### QUESTION 10

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.

**Answer: C**

#### QUESTION 11

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

**Answer: C**

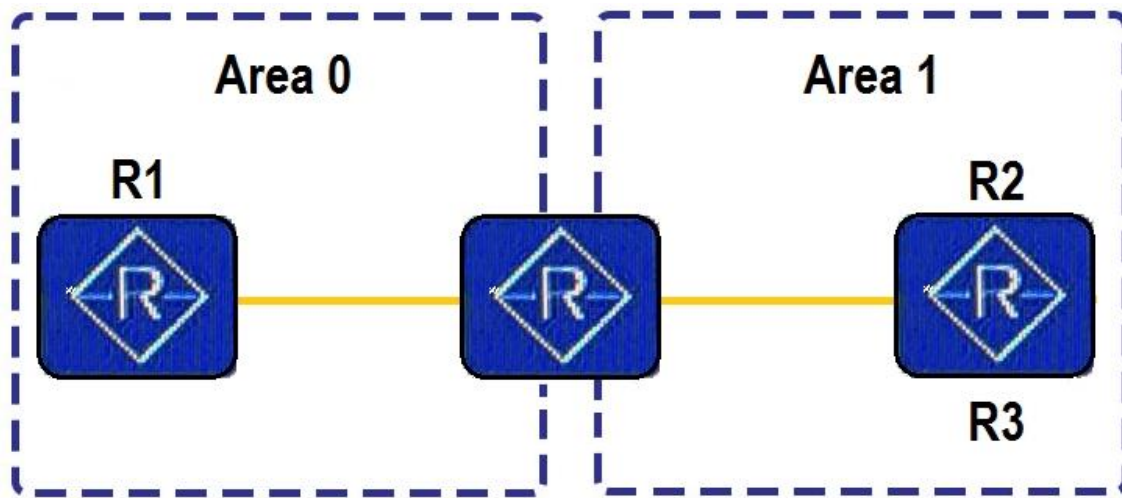
#### QUESTION 12

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

Answer: A

QUESTION 13



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

- A. The filter import command can be executed on R2 in Area 0 to filter loopback interface routes of R3.
- B. The filter-policy import command can be executed on R1 to filter loopback interface routes of R3.
- C. The filter export command can be executed on R2 in Area 1 to filter loopback interface routes of R3.
- D. The filter-policy export command can be executed on R2 to filter loopback interface routes of R3.

Answer: A

QUESTION 14

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.

Answer: A

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