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H12-261

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



## Exam A

### QUESTION 1

Router HW1 is seeing a large number of Discard Eligible (DE) frames. In Frame-relay, as part of the Congestion-Control Mechanism, the DE bit works in conjunction with which of the following mechanisms?

- A. Differentiated Services Code Point (DSCP) settings
- B. Frame-relay Traffic Shaping (FRTS) settings
- C. Class-to-Service (CoS) settings
- D. Type-of-service (ToS) settings
- E. Forward Explicit Congestion Notification (FECN) of Backward Explicit Congestion Notification (BECN) settings

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 2** Which parameter will not be received from the root bridge by a non-root bridge running 802.1D STP?

- A. Forward delay
- B. Hello time
- C. Root cost
- D. Hold time
- E. Max Age

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 3** Which of the following are used in Ethernet networks?  
(Multiple Choice)

- A. 802.5 encapsulated frames
- B. 802.3 encapsulated frames
- C. CSMA/CD for media access
- D. Non Canonical format MAC addresses
- E. Canonical format MAC addresses

**Correct Answer:** BCE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 4** Which of the following statements is true about the port mirroring on Huawei devices?

- A. Huawei devices support port mirroring on the control traffic sent to the CPU
- B. Huawei devices support flow-based port mirroring. The mirrored traffic can be copied onto multiple observing ports
- C. Traffic in the RSPAN is transmitted to observing ports in multicast mode
- D. When the observing port becomes congested, mirrored packets cannot be discarded because these packets have higher priority than service traffic

**Correct Answer:** A

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 5**

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: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 6** 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: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 7** 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: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

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:** DE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 9

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10



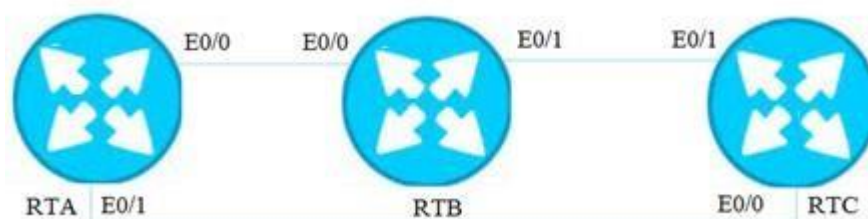
```

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:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

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:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 12** 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:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 13** 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 14** 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 15

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 16

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 17

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:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 18

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

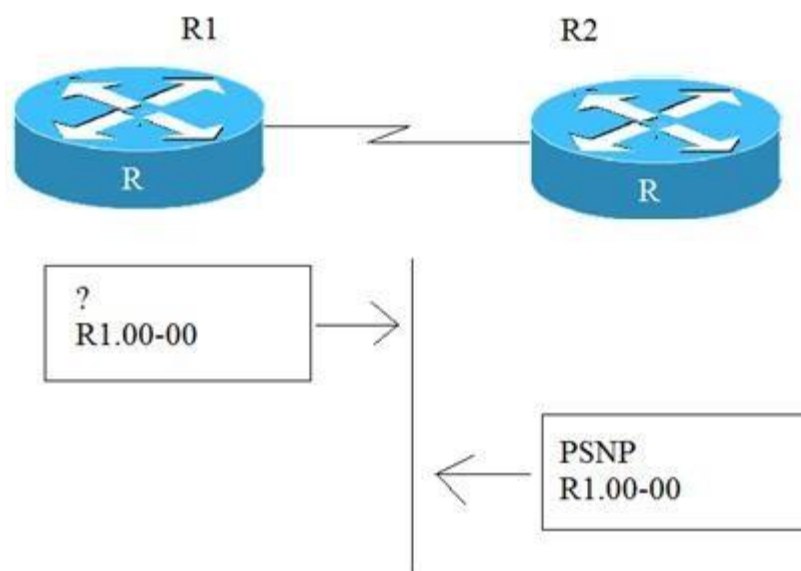
**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 19

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 20 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 21** 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 22**

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 23** 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 24** 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 25** 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 26**

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 27** 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 28** 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:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 29** 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:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 30** 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:** ABCE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 31** An AS-path-filter uses the regular expression  $^{[0-9]}+\$$  to indicate all as-path attributes.

- A. TRUE
- B. FALSE

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 32**

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:** ABC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 33** 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:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 34**

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:7f:a2 (00:e0:fc:6e:7f:a2), 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:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 35** 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 36** 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: (none)**

**Explanation**

**Explanation/Reference:**



**QUESTION 37** 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 38** 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: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 39** 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 valueE. It is used only for directly connected subnets or aggregate routes

**Correct Answer:** BDE

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

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 41** 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 mode up of network control messages meant to stay in the local subnetD. 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 42**

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 43**

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 44**

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 45**

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 46** 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 47

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

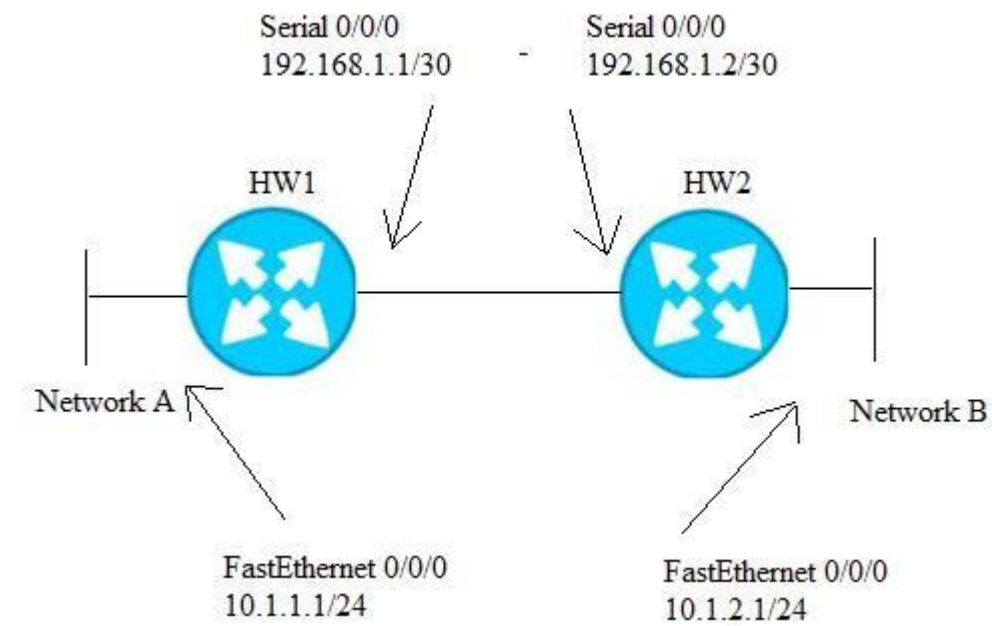
**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 48

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 192.168.1.1 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 49**

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 50** From the list of applications below, identify the TCP port numbers used for 443, 179,137,110, and 23 in the proper sequence:

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: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 51** 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: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 52** 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:** BE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 53** 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:** AE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 54**

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:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 55**

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:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 56**

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:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 57** 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 authenticationC. 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 58**

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 59** Which of the following statements about VRRP load balancing are tfalse?

(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 60**

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:**

