Huawei Certified Network Specialist

1. With the IPSec technology , which of the following description is true?

A. IPSec delivers service for transmission layer

B. ESP provides authentication service

C. ESP is more simple than AH

D. AH provides Data encryption

Answer(s): B

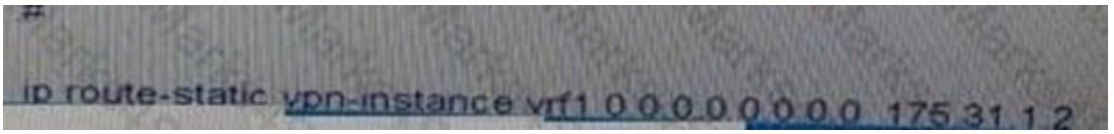
---

2. As shown in the figure, a CE requires access to the internet , and PE 1is connected to the gateway. Configurations on PE 1 are as follows:

PE 1:

```
#
 nat address-group 0 175.31.1.3 175.31.1.10
#
ip vpn-instance vrf1
 route-distinguisher 192.168.1.1:100
 vpn-target 100:1 export-extcommunity
 vpn-target 100:1 import-extcommunity
#
 acl number 2000
  rule 5 permit vpn-instance vrf1
 #
 #
interface Serial0/0/1:0
 link-protocol ppp
 ip binding vpn-instance vrf1
ip address 150.1.1.1 255.255.0.0
 nat outbound acl 2000 address-group 0
#
 interface Pos2/1/0
  clock master
  link-protocol ppp
   ip address 175.31.1.1 255.255.0.0
  #
bgp 100
 group ibgp internal
 peer ibgp connect-interface LoopBack0
 peer 192.168.1.2 as-number 100
```

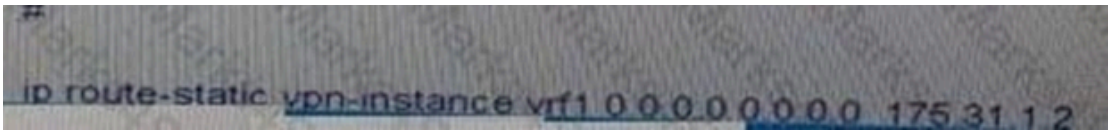
```
peer 192.168.1.2 group ibgp
#
ipv4-family unicast
 undo synchronization
 peer ibgp enable
 peer 192.168.1.2 enable
 peer 192.168.1.2 group ibgp
#
 ipv4-family vpnv4
 policy vpn-target
 peer ibgp enable
 peer 192.168.1.2 enable
 peer 192.168.1.2 group ibgp
#
ipv4-family vpn-instance vrf1
 default-route imported
 import-route direct
 import-route static
 group nei_vrf1 external
 peer nei_vrf1 as-number 65004
 peer 150.1.1.2 as-number 65004
 peer 150.1.1.2 group nei_vrf1
```


#
ip route-static vpn-instance vrf1 0.0.0.0 0.0.0.0 175.31.1.2

PE 1:

```
#
 nat address-group 0 175.31.1.3 175.31.1.10
#
ip vpn-instance vrf1
 route-distinguisher 192.168.1.1:100
 vpn-target 100:1 export-extcommunity
 vpn-target 100:1 import-extcommunity
#
 acl number 2000
  rule 5 permit vpn-instance vrf1
 #
 #
interface Serial0/0/1:0
 link-protocol ppp
 ip binding vpn-instance vrf1
ip address 150.1.1.1 255.255.0.0
 nat outbound acl 2000 address-group 0
#
 interface Pos2/1/0
  clock master
  link-protocol ppp
   ip address 175.31.1.1 255.255.0.0
  #
bgp 100
 group ibgp internal
 peer ibgp connect-interface LoopBack0
 peer 192.168.1.2 as-number 100
```

```
peer 192.168.1.2 group ibgp
#
ipv4-family unicast
 undo synchronization
 peer ibgp enable
 peer 192.168.1.2 enable
 peer 192.168.1.2 group ibgp
#
 ipv4-family vpnv4
 policy vpn-target
 peer ibgp enable
 peer 192.168.1.2 enable
 peer 192.168.1.2 group ibgp
#
ipv4-family vpn-instance vrf1
 default-route imported
 import-route direct
 import-route static
 group nei_vrf1 external
 peer nei_vrf1 as-number 65004
 peer 150.1.1.2 as-number 65004
 peer 150.1.1.2 group nei_vrf1
```



PE 1 is connected to the internet gateway through interface 175.311.2 CE and CE 2 cannot ping the interface.

Which of the following statements are true?

A. NAT translation must be configured on interface pos2/1.0 instead of interface s0./01.0

B. A private network route must be configured on the internet gateway.

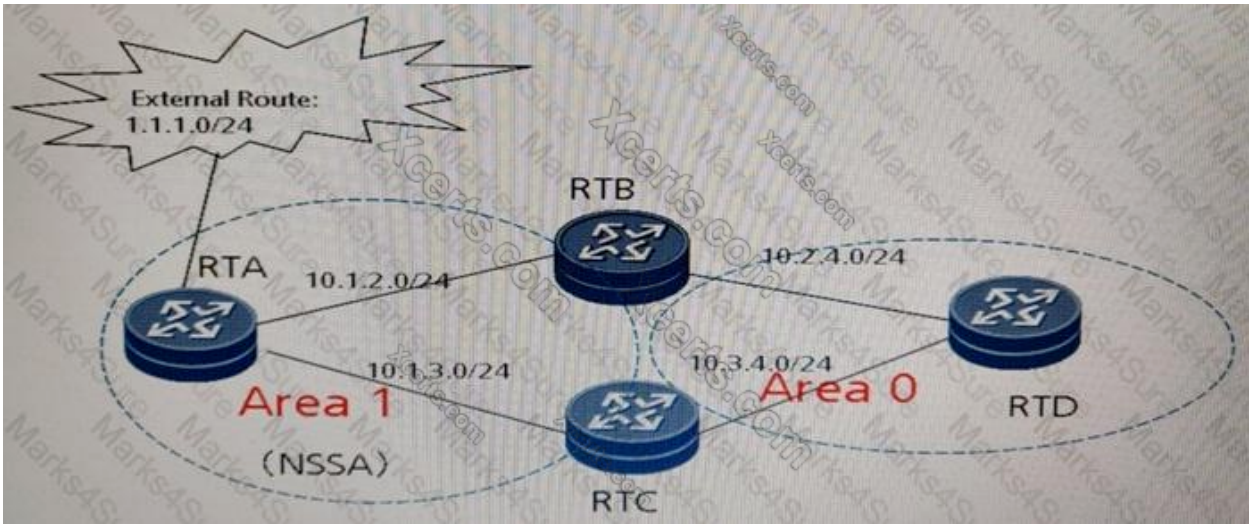
C. The public parameter of a static default route must be configured.

D. A default must be configured on CE an CE 2.

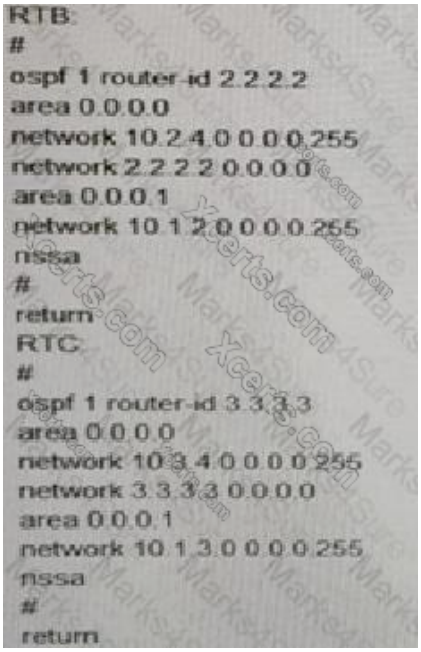
Answer(s): B

---

3. Exhibit.



As shown in the figure, external route 1.1.1.0/24 is imported to RTA that is located in the NSSA area RTD is a backbone area router. RTB and RTC are both area border router (ABRs). OSPF configuration are as follows.



Which statement is true?

A. RTD receive two external LSAs whose LS_ID is 1.1.1.0

B. RTD receive an external LSAs whose LS_ID is 1.1.1.0 and advRouter is 2.2.2.2.

C. RTD receive an external LSAs whose LS_ID is 1.1.1.0 and advRouter is 3.3.3.3.

D. RTD receive an external LSAs whose LS_ID is 1.1.10/24 based on category 7 LSAs sent by RTA

Answer(s): D

---

4. Which statement about primary VPN tunnel binding is false?

A. Only the data destined for the specific peer device is transmitted through the n=bound primary VPN tunnel Data to other devices is transmitted using the default tunnel policy.

B. Primary tunnel ensures that data can be transmitted from a VPN t a specific peer device permanently through a dedicate TE tunnel.

C. Primary VPN tunnel binding means to bind a tunnel to a specific VPN. The bound tunnel is exclusive to the VPN.

D. The bound primary tunnel can be selected sequentially.

Answer(s): C

---

5. Which statement describes the packet loss ratio requirement of the voice service for the IP bearer network?

A. Allowed maximum packet loss =10-6

B. Allowed maximum packet loss =1%

C. No strict requirement

D. Allowed maximum packet loss =1%

Answer(s): A

---

6. If a (*,) entry exists in the RP, Which of the following statements about the source registration are true in PIM_SM?

A. The first hop DR connecting to the source encapsulate received multicast into PIM registration information and unicast the encapsulated information to the PR.

B. The RP sends an (S, G) join message hop by hop to the first hop DR connected to the multicast source to add the multicast source to the SPT.

C. The first-hop RD connecting to the source sends received multicast data to the RP ho[p by hop.

D. The RP encapsulates registration information and uses RTP to send data packet to be sent to the multicast group to the outbound interface.

E. The RP unicast a registration stop message to the first router connection to the multicast source.

Answer(s): E

---

7. Which of the following can be implemented in an IP backbone network?

A. RIP

B. BGP

C. ISIS

D. MPLS

Answer(s): B

---

8. The Huawei router is the hop RD where the SSM mapping function is enabled at the interface. Some IGMPv2 hosts expect to receive (1.0.01,232.1.0.1) (1.0.0.1232.1.0.2), and (2.0.0,232.1.3.2) data. How can you satisfy the preceding requirement with the least configurations?

A. ssm-mapping 232.1.3.2 16.2.0.0.1

B. ssm mapping 232.1.3.1.24.2.0.0.1

C. ssm-mapping 232. 1 308 2 00.1

D. ssm-mapping 232 1.0. 1 32. 1. 0. 0. 1

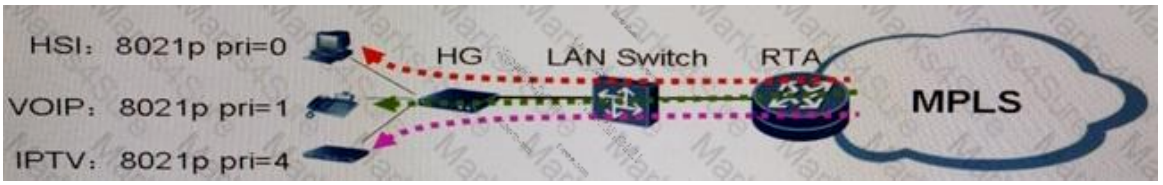
E. ssm-mapping 232. 1.0. 2. 32. 1. 0. 0. 1

F. ssm-mapping 232. 1. 0. 0. 24. 1. 0. 0. 1

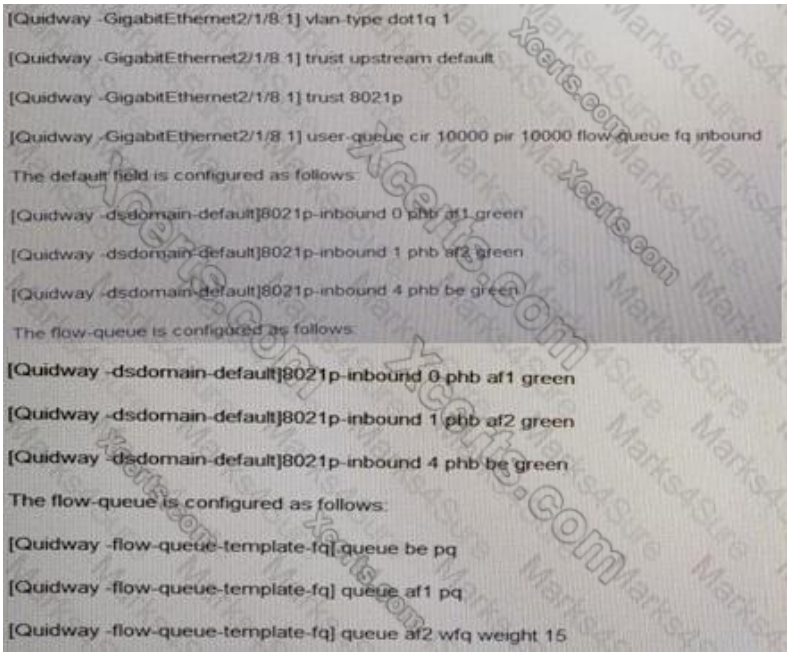
Answer(s): C

---

9. Exhibit.



RTA is an edge router of the MPLS backbone network. It provides the access services for users under Layer 2 switches and different users by subinterface . User A access VLAN12 and has subscribed to the His, VoIP, and IPTV services. According to 802 1p priorities, the value indicates the His service, 1 indicates the VoIp service, and 4 indicates the IPTV service. RTA is configured on he access side as follows.



What is the descending order of service priorities?

A. VoIP, IPTV, HSI

B. HSI, VoIP, IPTV

C. IPTV, VoIP, HSI

D. HSI, IPTV, VoIP

Answer(s): D

---

10. Which statement about the Hub s MPLS VPN networking is false?

A. The Hub PE can receive the VPN_IPv4 routes advertised by all Spoke PEs.

B. When an MP-IBGB neighbor relationship is established between two spoke PEs, the value of the Import VPN Target attribute of one Spoke PE can be the same as tat of the Export VPN Target attribute of the other Spoke PE.

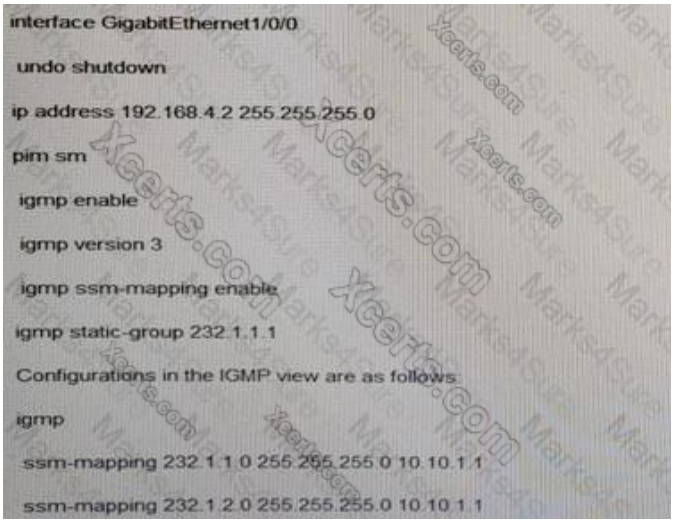
C. The Hub PE advertises the routes learned from one Spoke PE to other Spoke PEs. Therefore, Spoke sites can access other through the Hub site.

D. All Spoke PEs can receive the VPN-IPv4 routes advertised by the Hub PE.

Answer(s): B

---

11. RTA is a leaf router that directly connects to host A through interface GigabiteEthernet 1/0/0. The interface is configured as follows:



Hos a sends a IGMPv2 Report message to group 2321.2.3. Which entry can be displayed by the displayed by the igmp ssm-mapping group command?

A. (10.10.1.1, 232.1.2.2)

B. (10.10.1.1, 232.1.1.) and (10.10.1., 2321.2.3)

C. (10.10.1.1, 232.1.1.1)

Answer(s): A

---

12. An interface sends 300 Mbit/s user BE traffic. The downstream HQoS scheduling is configured at this interface as follows
SQ: cir 15 Mbit/s pw 200 Mbit/s
FQ. queue be Ipq shaping 10
CQ: port-queue be Ipq shaping shaping-percentage 10 outbound, port shaping 100
How much traffic is at the downstream outbound interface after HQoS scheduling?

A. 20 Mbit/s

B. 10 Mbit/s

C. 200 Mbit/s

D. 100 Mbit/s

Answer(s): D

---

13. On the OSPF network, which of the following statements about the authentication function of the OSPF protocol are true?

A. The OSPF protocol supports area authentication and interface authentication.

B. The interface authentication mode must be consistent with the area authentication mode . For Example, interface and area are authentication in simple or MDS mode or are not authenticated.

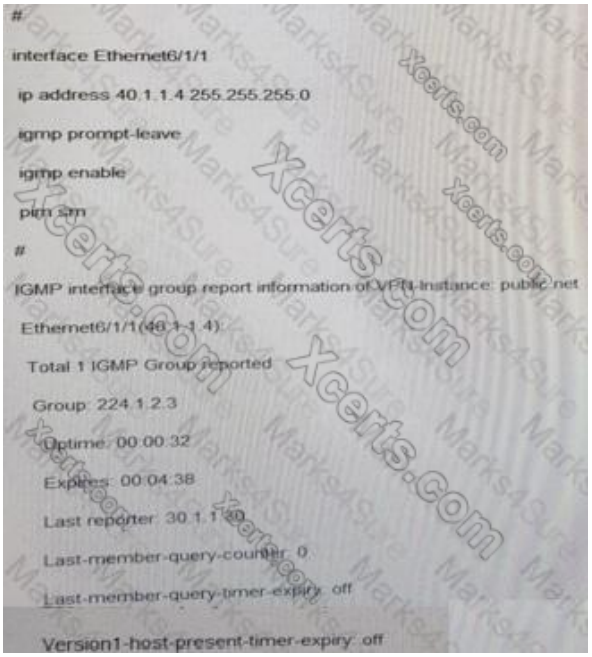
C. The interface authentication mode can be different from the area authentication mode.

D. The authentication function of the OSPF is implemented by parameter settings in hello packets.

Answer(s): D

---

14. Exhibit.



The preceding information shows the configurations of Ethernet 6/1/1 and ensure created based on received IGMPv2 Report messages. Which action does Ethernet 6/1/1 after receiving Leave messages for group 224.1.2.3?

A. Deletes the record of group 224.1.2.3

B. Sends group-specific query messages for group 224.1.2.4

Answer(s): A

---

15. With the NAT technology, which of the followingelements can be translated?

A. Destination port number

B. Source port number

C. Source IP

D. Session table

E. Destination IP

Answer(s): A

---

16. Which of the followingstatementsabout the merits of the HoVPN networking are true?

A. If the UPE are SPE are separated by an IP/IPMLS network, they can be connected through a generic routing encapsulation (GRE) or LSP runnel . A hierarchical MPLS VPN provides good scalability.

B. The SPE and UP exchange routes and advertise labels through MP-BGP. Each UPE runs only one BGP peer, reducing system overheads and simplifying configuration.

C. The BGP/MPLS VPN can be deployed layers by layer. When the performance of a super strum provider edge (SPE) is insufficient, a user-end provider edge (UPE) can be added and the SPE moved to a lower layer. When the access capability of a UPE is insufficient, and SPE can be added.

D. Packets are forwarded between a UPE and an SPE after being label. The UPE and SPE are connected through an interface (or a subinterface), helping reduce the usage of limited interface resources.

E. Only local VPN routes need to be maintained on an SPE and remote routes on the SPE are represented by a default route or an aggregate route, reducing the load of the SP

Answer(s): E

---

17. User A want to obtain a better network service for business development and signs an SLA with a corner. User A purchases a bandwidth of 5 Mbit/s to ensure the voice service (requiring short delay), vide service, key data services, and other services, If you werecornernetwork administrator.
What would you do on the PE to ensure these services?

A. Mark the VoIP service as EF, set the CIR to 0Mbit/s, and set the PIR to 1 Mbit/s mark the video service as AF 4 and set the CIR and PIR to 2 Mbit/s mark key data services as AF3, set the CIR to 1 Mbit/s and the PIR to 5 Mbit/s: mark other services as AF1, set the CIR to 2 Mbit/s and Set PIR to 5 Mbit/s.

B. Mark the VoIP service as EF, set the CIR to 0Mbit/s, and set the PIR to 1 Mbit/s mark the video service as AF 4 and set the CIR and PIR to 2 Mbit/s mark key data services as AF3, set the CIR to 1 Mbit/s and the PIR to 5 Mbit/s: mark other services as AF1, set the CIR to 2 Mbit/s and Set PIR to 5 Mbit/s.

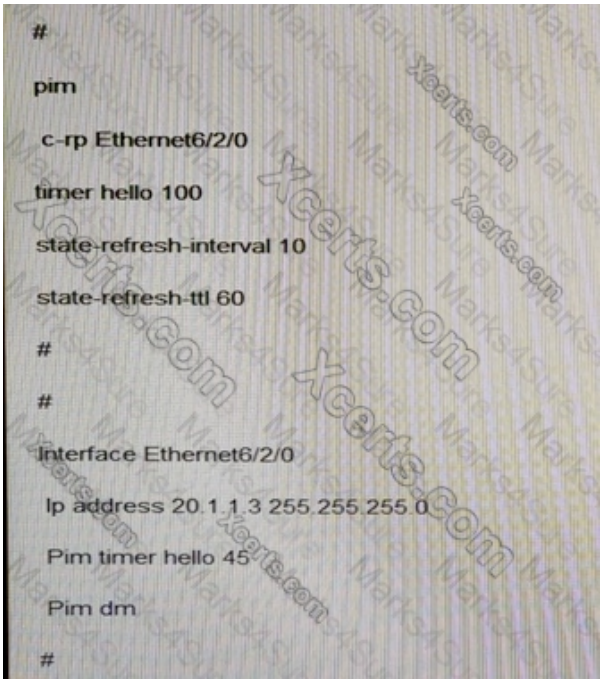
C. Mark the VoIP service as EF, set the CIR to 1 0Mbit/s, and set the PIR to 1 Mbit/s mark the video service as AF 4 and set the CIR and PIR to 2 Mbit/s mark key data services as AF3, set the CIR to 2 Mbit/s and the and the PIR to 5 Mbit/s : mark other services as BE, set the CIR to 0 Mbit/s and set PIR to 5 Mbit/s.

D. Mark the VoIP service as EF, set the CIR to 2 Mbit/s: marks the video service as AF 3 and set the CIR and PIR to 2 Mbit/s: mark key data services as AF4, set the CIR to 2 Mbit/s and the PIR to 5 Mbit/s mark other service as BE, set the CIR to 0 Mbit./s and set PIR to 5 Mbit/s

Answer(s): C

---

18. Exhibit.



Which of the following statements are false?

A. Ethernet 6/2/0 sends a PIM hello message every 100 seconds.

B. The TTL value is 60 in state-refresh messages sent by the router

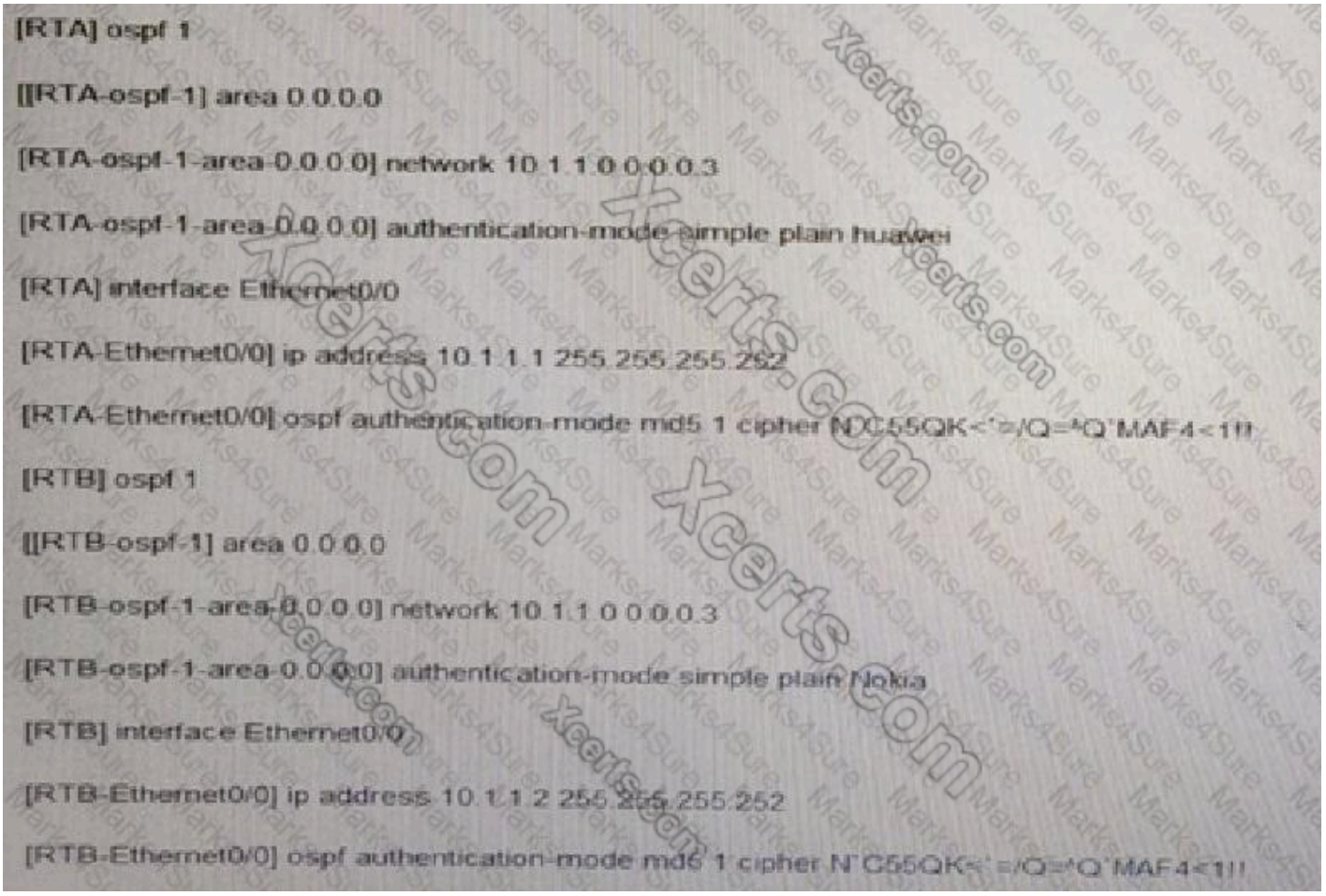
C. If the PIM-DM is enabled at Ethernet 6/2/0 on a router, the PIM-SM cannot be enabled at other interfaces on the router.

D. Ethernet 6/2/0 sends a state-refresh messages every 10 seconds

Answer(s): C

---

19. An Ethernet cable connects RTA to RTB through Ethernet 0/0.the OSPF neighbor relationship can be established without enabling the OSPF authentication functionis enabled, Which of the following statements about the OSPF relationship between RTA and RTB are true?



A. Simple authentication is used between RTA and RTB

B. The OSPF neighbor relationship cannot be established between RTA and RTB due to failure of area authentication

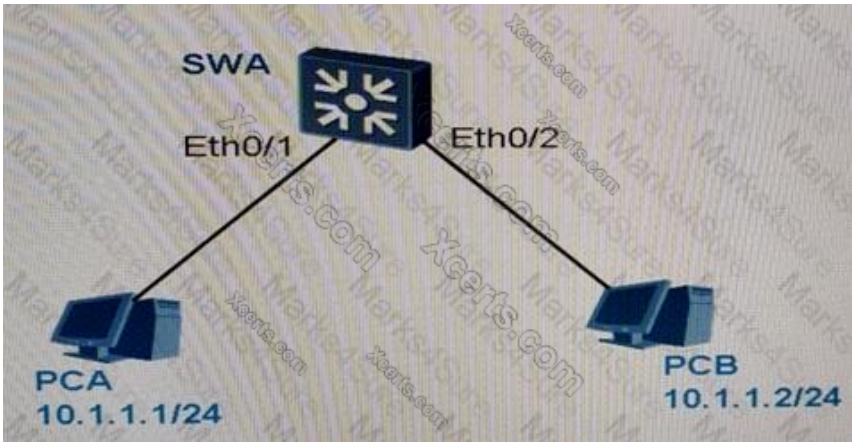
C. The OSPF neighbor relationship can be established between RTA and RTB

D. MD5 authentication is used between RTA and RTB

Answer(s): A

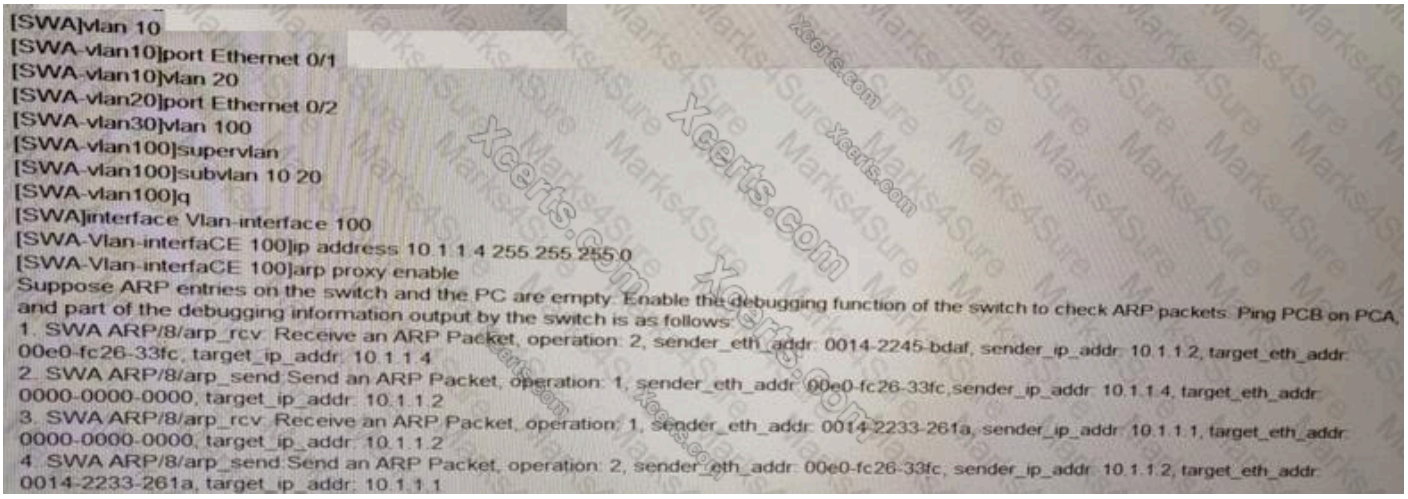
---

20. Exhibit.



As shown in the figure, Super VLAN is enabled on SWA (a LAN switch). The Super VLAN configuration is as

follows:



Which of the following specifics the time order in which the preceding debugginginformationis generated?

A. 3--4--1--2

B. 1--2--3--4

C. 1--4--2--3

D. 3--2--1--4

Answer(s): A