Exam Questions 300-101

Implementing Cisco IP Routing

https://www.2passeasy.com/dumps/300-101/

NEW QUESTION 1
How route tags can be set?(choose two)

A. ONLY within route tags
B. within tag lists
C. can be set with ONLY route-maps
D. can be set DIRECTLY within route maps.
E. only used on link state RPs

Answer: BD

NEW QUESTION 2
What does stateful NAT64 do that stateless NAT64 does not do?

A. Stateful NAT64 maintains bindings of IPv4 to IPv6 link-local addresses.
B. Stateful NAT64 translates IPv4 to IPv6.
C. Stateful NAT64 translates IPv6 to IPv4.
D. Stateful NAT64 maintains bindings or session state while performing translation.

Answer: D

NEW QUESTION 3
What is the default authentication in RIPv2 when authentication is enabled?

A. enable password authentication
B. MD5 authentication
C. SHA1 authentication
D. plaintext authentication

Answer: D

NEW QUESTION 4
Refer to the following configuration command. Which statement about the command is true? router(config)ip nat inside source static tcp 172.16.10.8 8080 172.16.10.8 80

A. Any packet that is received in the inside interface with a source IP port address 172.16.10.8:8080 is translated to 172.16.10.8:80
B. Any packet that is received in the inside interface with a source IP port address of 172.16. 10.8: 80 is translated to 172.16.10.8.8080
C. The router accepts only a TCP connection from port 8080 and port 80 on IP address 172.16
D. Any packet that is received in the inside interface with a source IP address of 172.16.10.8 is redirected to port 8080 or port 80

Answer: A

NEW QUESTION 5
Which task must you perform to enable a point-to-point Frame Relay connection?

A. Enable inverse ARP.
B. Configure the encapsulation type.
C. Configure static address mapping.
D. Disable inverse ARP.

Answer: C

NEW QUESTION 6
Refer to the exhibit.

R1 is configured with VRF-Lite and can ping R2. R2 is fully configured, but it has no active
EIGRP neighbors in vrf Yellow. If the configuration of R2 is complete, then which issue prevents the EIGRP 100 neighbor relationship in vrf Yellow from forming?

A. The no auto-summary command is preventing the EIGRP neighbor relationship from forming
B. There is a Layer 1 issue that prevents the EIGRP neighbor relationship from forming
C. The interface IP addresses are not in the same subnet
D. EIGRP 100 network 192 168 1 0/24 is configured in the global routing table on R1

Answer: D

NEW QUESTION 7
Where can NetFlow export data for long term storage and analysis?

A. another network device
B. syslog
C. flat file
D. collector

Answer: D

NEW QUESTION 8
Drag and drop the statements from the left onto the correct uRPF modes on the right
Select and Place:

	Loose Mode
It can drop legitimate traffic.	
It requires the source address to be routable.	
It supports using the default route as a route reference.	Loose Mode
It permits only packets that are received on the same interface as the exit interface for the destination address.	

nneettwwookkiinngg

Answer:

Explanation:

	Loose Mode
	It supports using the default route as a route reference.
	It requires the source address to be routable.
	Loose Mode
	It can drop legitimate traffic.
	It permits only packets that are received on the same interface as the exit interface for the destination address.

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NEW QUESTION 9
which phase of dmpvn spoke to spoke communications?

A. phase2
B. phase4C
C. phase5
D. phase6
E. phase1

Answer: A

NEW QUESTION 10
Drag and drop the statements about NAT64 from the left onto the correct NAT64 types on the right.

ALG is not supported.	Stateful
It supports FTP64 for ALG.	
It supports PAT and overload.	
It supports one-to-one mappings only.	Stateless
It allows IPv6 systems to use any type of IPv6 address.	
It requires IPv6 systems to use RFC6052 IPv4-translatable addresses.	

Answer:

Explanation:

ALG is not supported.	Stateful
It supports FTP64 for ALG.	It supports PAT and overload.
It supports PAT and overload.	It requires IPv6 systems to use RFC6052 IPv4-translatable addresses.
It supports one-to-one mappings only.	It supports FTP64 for ALG.
It allows IPv6 systems to use any type of IPv6 address.	Stateless
It requires IPv6 systems to use RFC6052 IPv4-translatable addresses.	It supports one-to-one mappings only.
	ALG is not supported.
	It allows IPv6 systems to use any type of IPv6 address.

NEW QUESTION 10
What is the minimum privilege level to allow a user to execute all user-level commands but prohibits enable level commands by default?

A. level 0
B. level 1
C. level 14
D. level 15
E. level 16

Answer: B

NEW QUESTION 11
Refer to the exhibit.

```
access-list 1 permit 192.168.1.1
access-list 1 deny any
!
access-list 2 permit 192.168.1.4
access-list 2 deny any
!
ntp access-group serve 1
ntp master 4
ntp access-group peer 2
```

Which three NTP features can be deduced on the router (Choose three.)

A. only accepts time requests from 192.168.1.1
B. only handle four requests at a time
C. only is in stratum 4
D. only updates its time from 192.168.1.1
E. only accepts time requests from 192.168.1.4
F. only updates its time from 192.168.1.4

Answer: ACF

NEW QUESTION 15
What is the hop count that is advertised for an unreachable network by a RIP routes that uses poison reverse?

A. 15
B. 16
C. 255

Answer: C

NEW QUESTION 20
With which network type will OSPF establish router adjacencies but not perform the DR/BDR election

A. Point-to-point
B. Backbone area 0
C. Broadcast multi-access
D. Non-broadcast multi-access

Answer: A

NEW QUESTION 23
In which scenario can asymmetric routing occur?

A. active/standby firewall setup
B. active/active firewall setup
C. redundant routers running VRRP
D. single path in and out of the network

Answer: B

NEW QUESTION 26
What is supported radius server? (choose two)

A. telnet
B. authentication
C. accounting
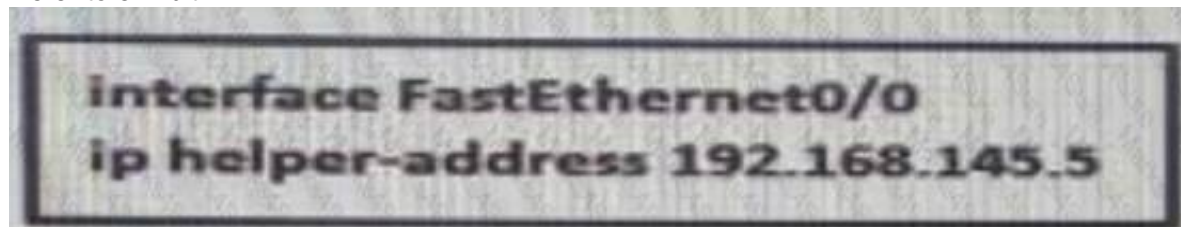D. authorization
E. SSH

Answer: BD

NEW QUESTION 29
Which routing protocol routes traffic through the best path and second best path at the same time?

A. EIGRP
B. BGP
C. OSPF
D. RIP

Answer: B

NEW QUESTION 30
Refer to exhibit.


```
interface FastEthernet0/0
ip helper-address 192.168.145.5
```

A packet capture indicates that router is not forwarding the DHCP packets that it receives on interface FastEthernet command must be entered in global configuration mode to resolve this issue?

A. ip forward-protocol
B. ip DHCP relay
C. ip helper
D. service DHCP

Answer: A

NEW QUESTION 35
Which two statements about ICMP unreachable messages are true?(Ch oose two)

A. They are sent when a route to the destination is missing from the routing table
B. They can be enabled and disabled on a device only on a global level
C. They are sent when a destination address responds to an ARP request
D. They include the entire packet so that the source can identify the process that generated the message
E. They include a portion of the original data so that the source can identify the process that generated the message

Answer: AC

NEW QUESTION 36
Which two statements about VRF-Lite configuration are true? (Choose two)

A. They support ISIS.
B. Each customer has its own dedicated TCAM resources.
C. Different customers can have overlapping IP addresses on different VPNs.
D. They support the exchange of MPLS labels.
E. They support a maximum of 512 000 routes.
F. Each customer has its own private routing table.

Answer: BF

NEW QUESTION 39
Refer to the exhibit.
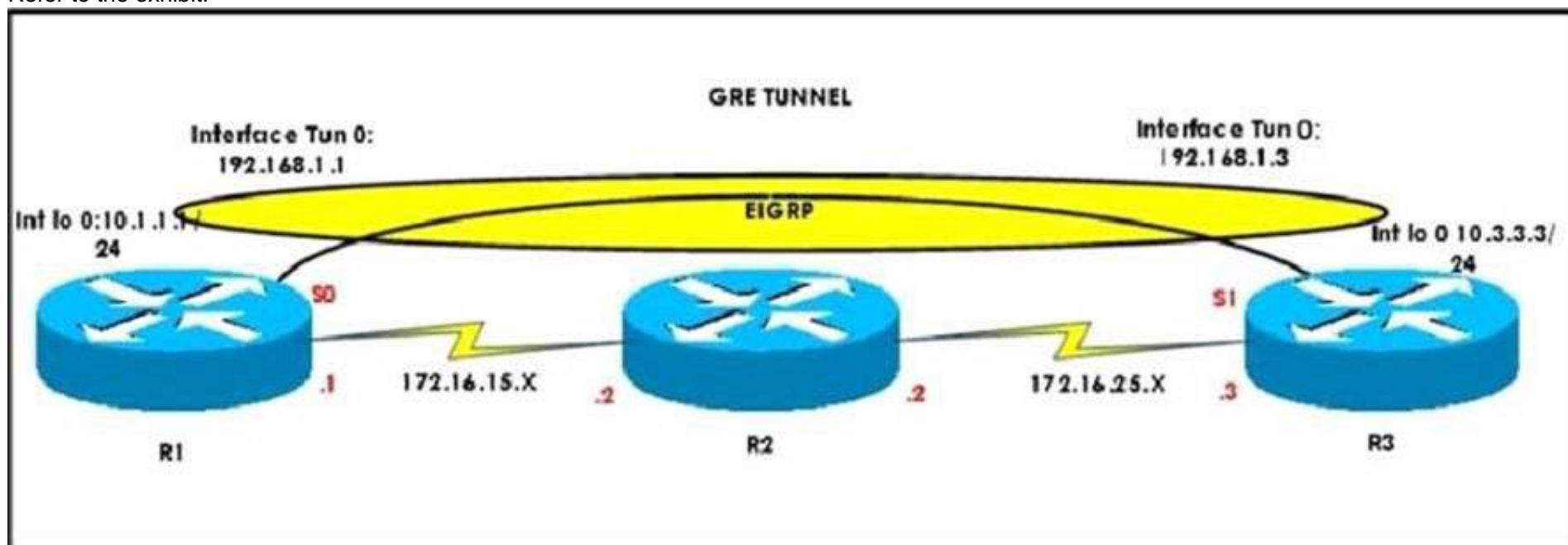
After configuring GRE between two routers running EIGRP that are connected to each other via a WAN link, a network engineer notices that the two routers cannot establish the GRE tunnel to begin the exchange of routing updates. What is the reason for this?

A. Either a firewall between the two routers or an ACL on the router is blocking TCP 47.
B. Either a firewall between the two routers or an ACL on the router is blocking IP protocol
C. Either a firewall between the two routers or an ACL on the router is blocking UDP 57
D. Either a firewall between the two routers or an ACL on the router is blocking IP protocol number 47

Answer: B

NEW QUESTION 44
Which criterion does BGP evaluate first when determining the best path?

A. MED value
B. neighbor address
C. local preference value
D. weight

Answer: D

Explanation: https://www.cisco.com/c/en/us/support/docs/ip/border-gateway-protocol-bgp/13753- 25.html
C:\Users\wk\Desktop\mudassar\Untitled.jpg

How the Best Path Algorithm Works

BGP assigns the first valid path as the current best path. BGP then compares the best path with the next path in the list, until BGP reaches the end of the list of valid paths. This list provides the rules that are used to determine the best path:

1.

Prefer the path with the highest WEIGHT.

✎ Note: WEIGHT is a Cisco-specific parameter. It is local to the router on which it is configured.

2.

Prefer the path with the highest LOCAL_PREF.

✎ Note: A path without LOCAL_PREF is considered to have had the value set with the bgp default local- preferencecommand, or to have a value of 100 by default.

NEW QUESTION 46
How is authentication handled with OSPFv3?

A. OSPFv3 for IPv6 authentication is supported by SHA-1 authentication.
B. OSPFv3 for IPv6 authentication is supported by MD5 authentication
C. OSPFv3 for IPv6 authentication is supported by IPv6 IPsec
D. OSPFv3 for IPv6 authentication is supported by IPv4 IPsec

Answer: C

NEW QUESTION 48
Refer to the exhibit. Which command us used to control the type of routes that are processed in incoming route updates?
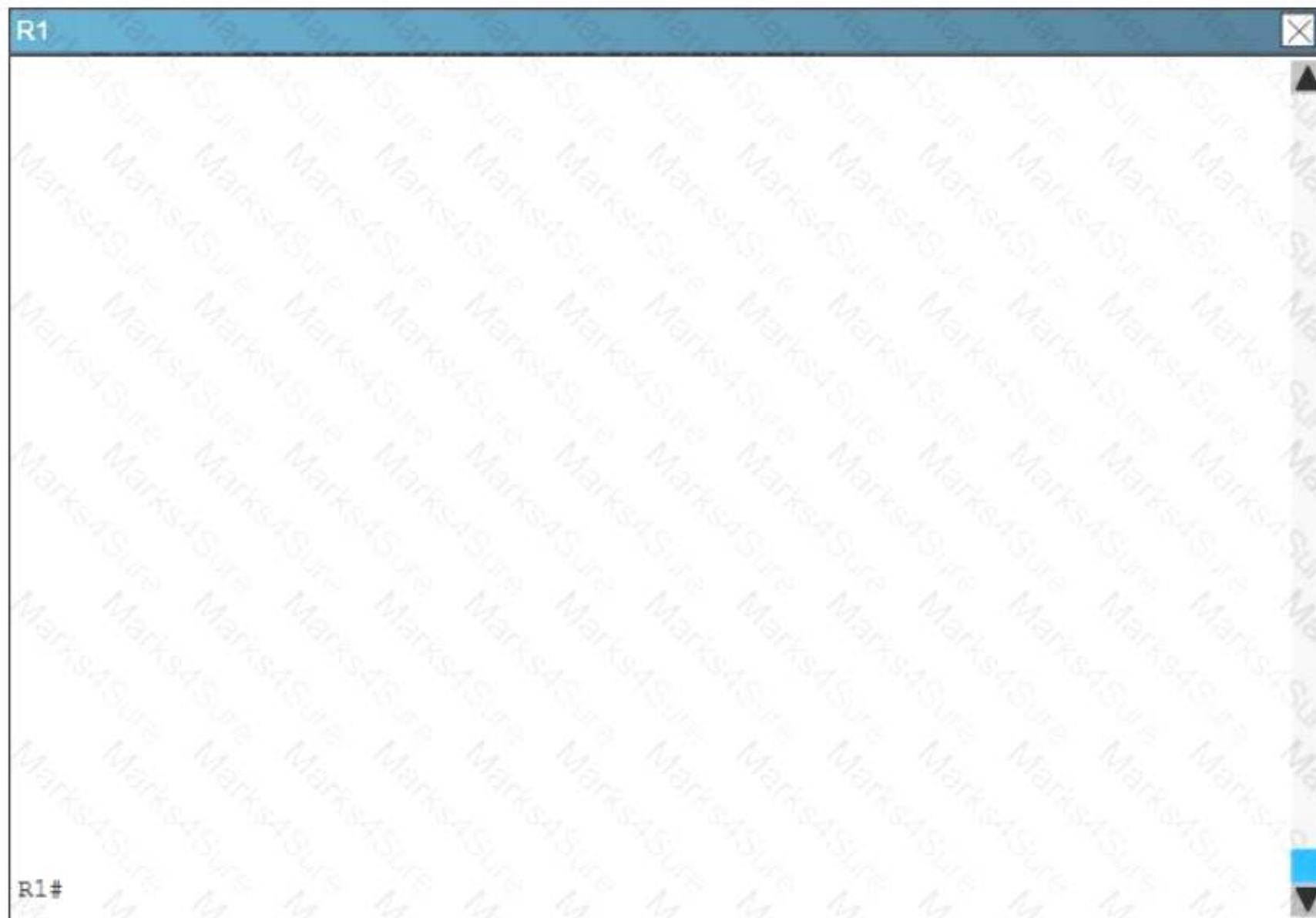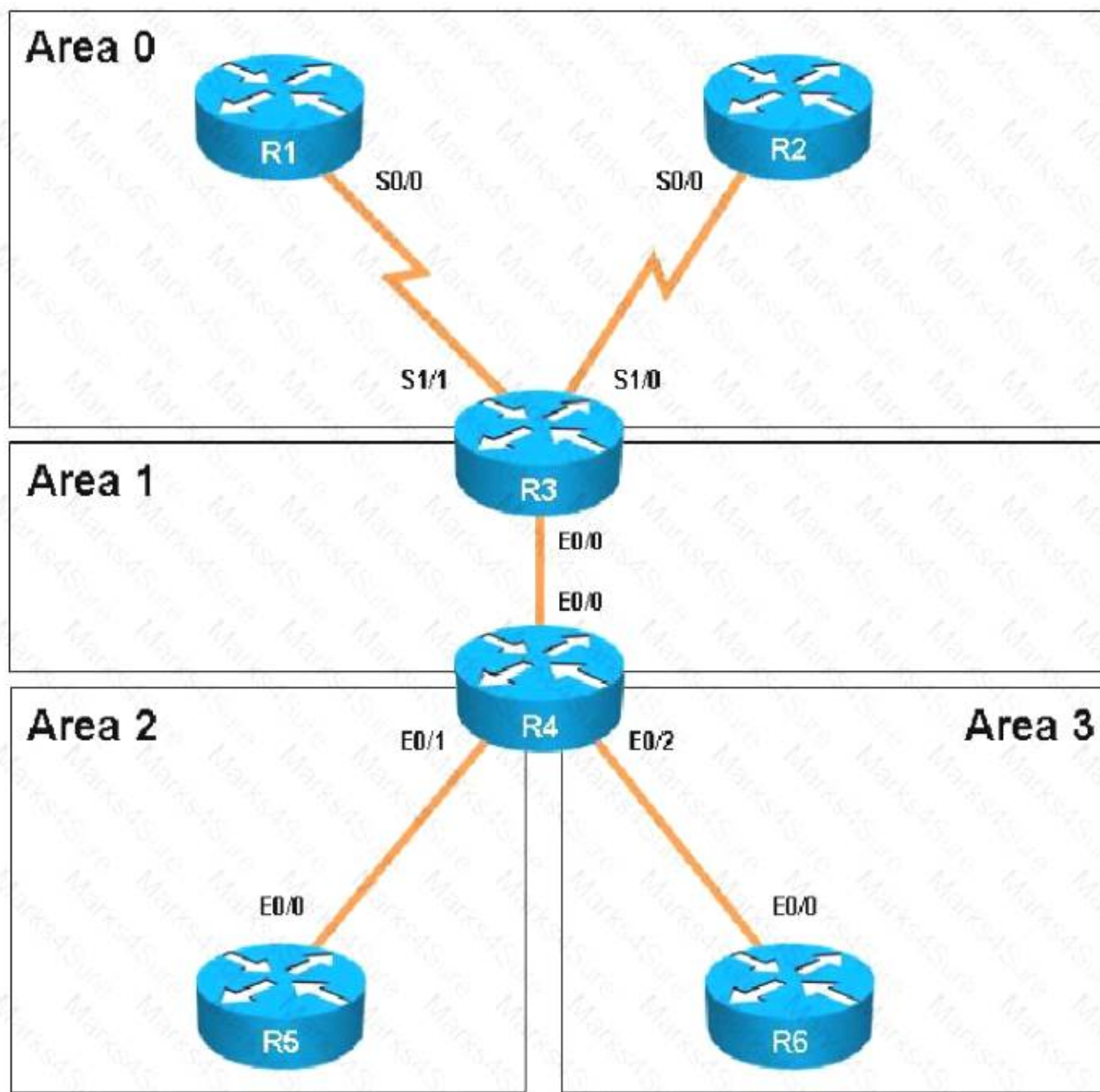
A. passive-interface
B. distribute-list 1 out
C. distribute-list 1 in
D. ip vrf forwarding

Answer: C

NEW QUESTION 53
Scenario:
You have been asked to evaluate an OSPF network setup in a test lab and to answer questions a customer has about its operation. The customer has disabled your access to the show running-config command.
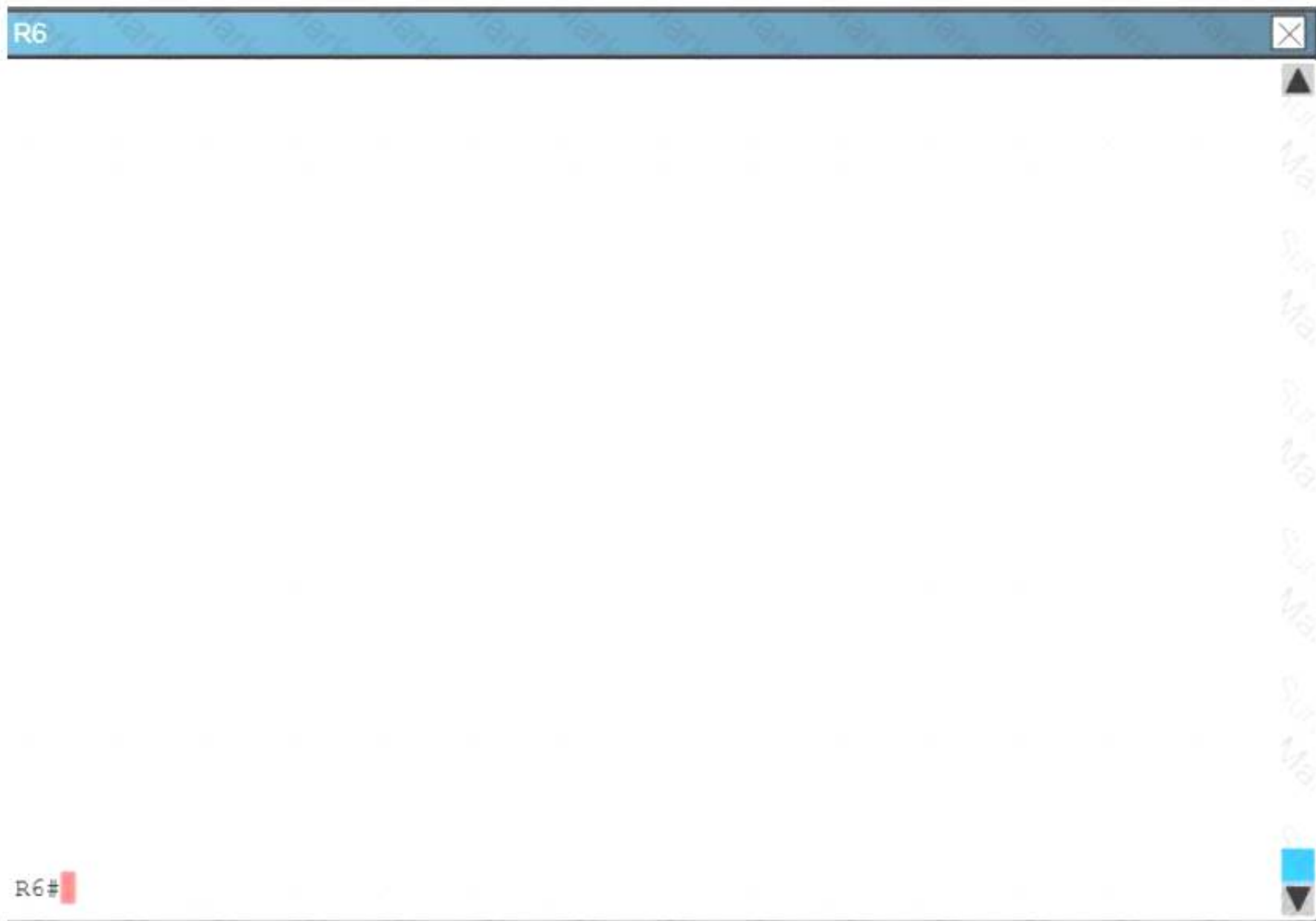
R2

R2#

R3

R3#

```
R4                                                        ✕

















R4#
```

```
R5                                                        ✕

















R5#
```

```
R6                                                              ✕

                                                                ▲




R6#                                                             ▼
```

Areas of Router 5 and 6 are not normal areas, inspect their routing tables and determine which statement is true?

A. R5's Loopback and R6's Loopback are both present in R5's Routing table
B. R5's Loopback and R6's Loopback are both present in R6's Routing table
C. Only R5's loopback is present in R5's Routing table
D. Only R6's loopback is present in R5's Routing table
E. Only R5's loopback is present in R6's Routing table

Answer: A

NEW QUESTION 57
Drag and drop the statement about device security from the left on the correct features on the right.

It designates the permitted management interfaces on the device.	COPP
It is enabled only when an interface is configured.	
It protects the device against DoS attacks.	
It requires only a single command to configure.	MPP
It supports packet forwarding by reducing the load on the device.	
It uses QoS to limit the load on the device.	

Answer:

Explanation:

It designates the permitted management interfaces on the device.	COPP
It is enabled only when an interface is configured.	
It protects the device against DoS attacks.	
It requires only a single command to configure.	MPP
It supports packet forwarding by reducing the load on the device.	
It uses QoS to limit the load on the device.	
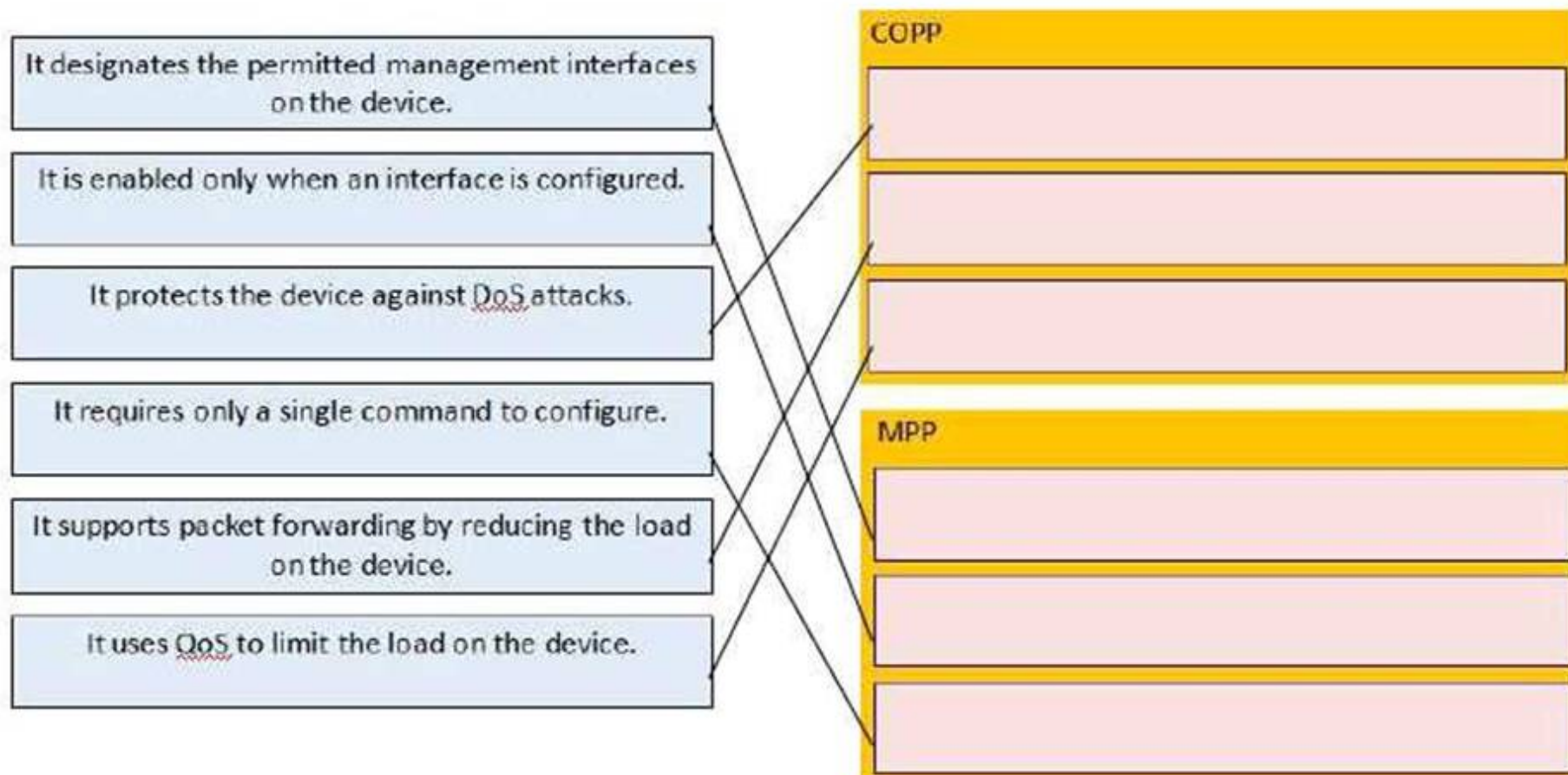
NEW QUESTION 59
Refer to the following.
aaa new-model
aaa authentication login default local-case enable aaa authentication login ADMIN local-case username CCNP secret Str0ngP@ssw0rd!
line 0 4
login authentication ADMIN
How can you change this configuration so that when user CCNP logs in, the show run command is executed and the session is terminated?

A. Add the autocommand keyword to the aaa authentication command
B. Assign privilege level 15 to the CCNP username
C. Add the access-class keyword to the aaa authentication command
D. Assign privilege level14 to the CCNP username
E. Add the access-class keyword to the username command
F. Add the autocommand keyword to the username command

Answer: F

NEW QUESTION 61
A network engineer has configured an IOS router to synchronize its clock with a Windows server. After several minutes, the network engineer notices that the local time on the router does not match the time on the windows server. What is the reason for this?

A. Ether a firewall between the drives or an ACL on the router is blocking TCP port 958.
B. Either a firewall between the two devices or an ACL on the router is blocking TCP port 123.
C. Either a firewall between the two devices or an ACL on the router is blocking UDP port 123.
D. Either a firewall between the two devices or an ACL on the router is blocking UDP port 858.

Answer: C

NEW QUESTION 66
Which configuration parameter is invalid when configuration unicast reverse path forwarding?

A. source reachable via both
B. allow self to router
C. allow based on ACL match
D. allow default route

Answer: A

NEW QUESTION 71
Which two statements about AAA with the local database are true?(Choose two)

A. The local database can serve only as a backup authentication method
B. It supports a limited number of usemames and passwords Accounting is not supported locally
C. By default, it is queried before a TACACS+ or RADIUS server
D. Authorization is available only for one-time -use logins

Answer: BC

NEW QUESTION 75
A network engineer enables OSPF on a Frame Relay WAN connection to various remote sites, but no OSPF adjacencies come up.
Which two actions are possible solutions for this issue? (Choose Two)

A. Change the network type to point-to-multipoint under WAN interface.
B. Enable virtual links.
C. Change the network type to nonbroadcast multipoint access.
D. Configure the neighbor command under OSPF process for each remote site.
E. Ensure that the OSPF process number matches among all remote sites

Answer: AD

NEW QUESTION 78
Drag and drop the steps in the NAT process for IPv4-initiated packers from the left into the correct sequence on the right.

Answer:

Explanation:

NEW QUESTION 83
Which two routers can do OSPF route summarization?. (Choose Two)

A. ABR
B. ASBR
C. Summary router
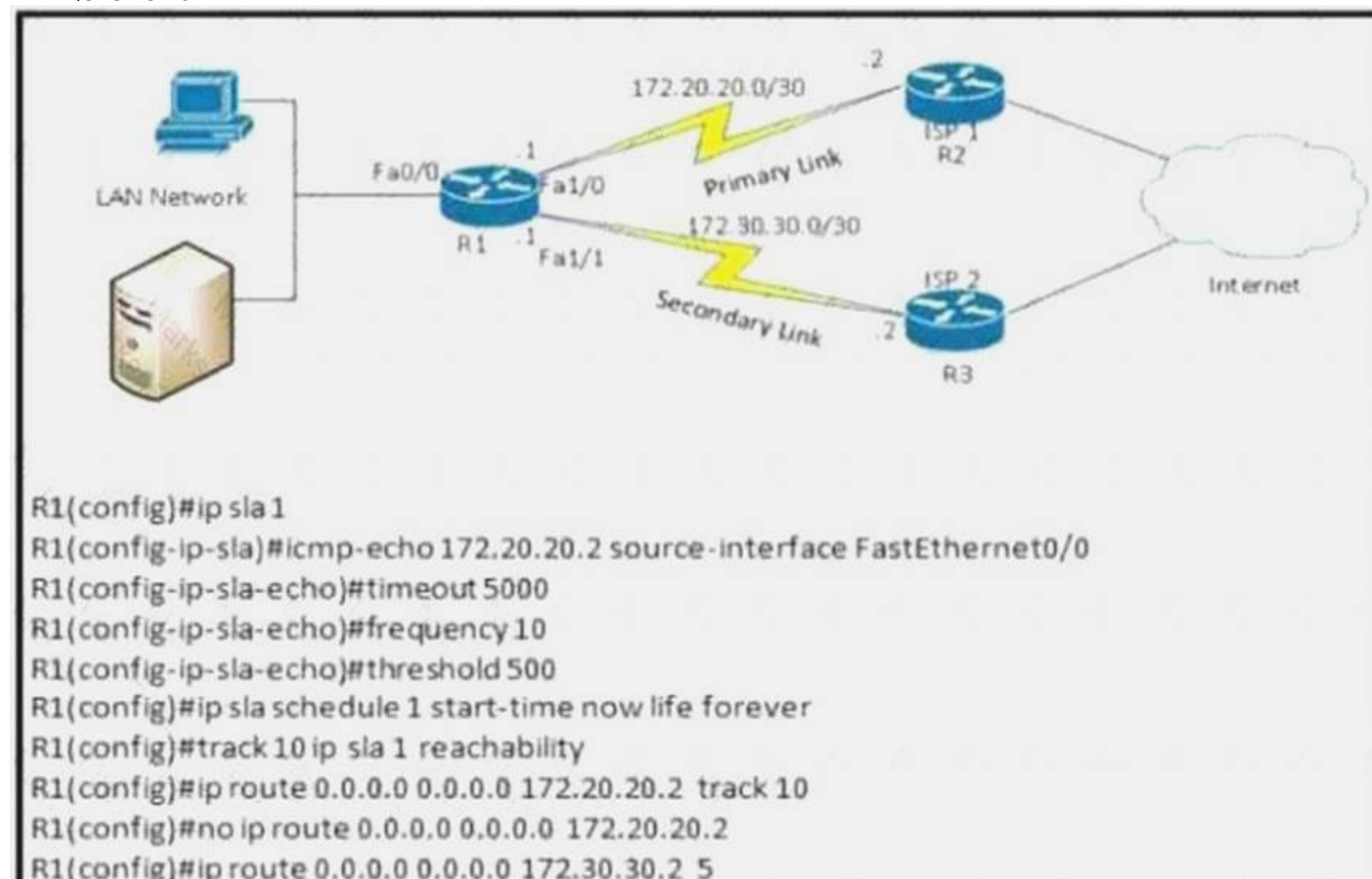D. internal router
E. Backbone router

Answer: AB

NEW QUESTION 88
What from the following can cause an issue for URPF? (this could be single answer or multiple choice) URPF FAIL
Reasons why urpf may fail:

A. Asymmetric routing
B. Cef not enabled
C. Urpf not applied to the traffic source
D. If it is used as ingress filtering

Answer: A

NEW QUESTION 91

Refer to the exhibit. Which two reasons for IP SLA tracking failure are true*? (Choose two)

A. A route back lo the R1 LAN network is missing in R2
B. The threshold value is wrong
C. The destination must be 172 30 30 2 for icmp-echo
D. The default route has wrong next hop IP address
E. The source-interface is configured incorrectly

Answer: AE

NEW QUESTION 92
Which two configurations does a PPPoE client support? (Choose two)

A. The client is installed on the same network device as the server
B. The client is connecting over an ATM PVC
C. The client is connected to multiple hosts over DMVPN
D. Eight clients are configured on a single CPE
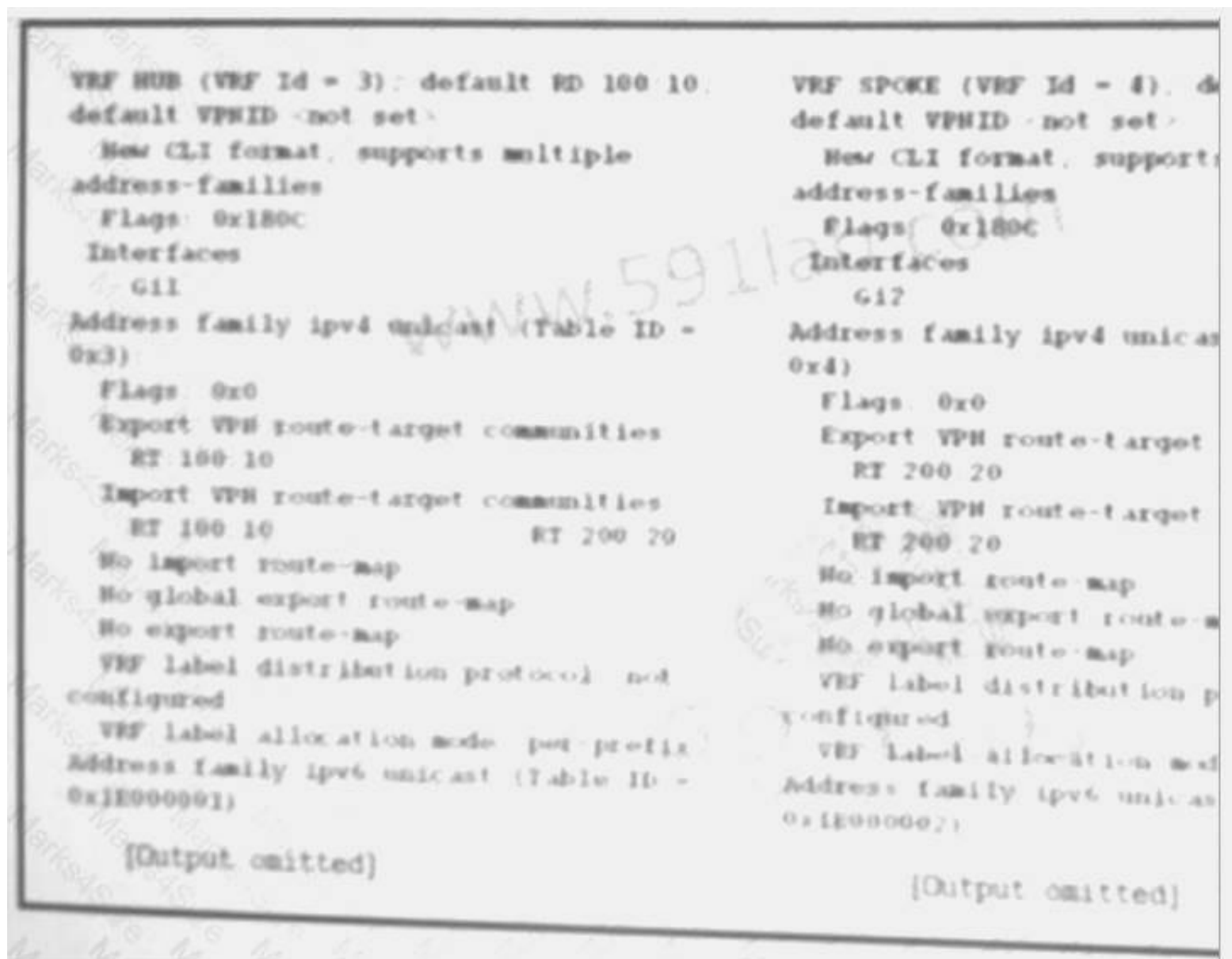E. The client is installed on a native IPv6 network

Answer: AB

NEW QUESTION 95
Where are EIGRP successor routes stored?

A. In the routing table only
B. In the neighbor table only
C. In the topology table only
D. In the routing table and the topology table
E. In the routing table and the neighbor table

Answer: D

NEW QUESTION 100
Refer to the exhibit

```
VRF HUB (VRF Id = 3): default RD 100:10      VRF SPOKE (VRF Id = 4). d
default VPNID -not set·                      default VPNID -not set·
  New CLI format, supports multiple            New CLI format, support
address-families                             address-families
  Flags  0x180C                                Flags  0x180C
  Interfaces                                   Interfaces
    G11                                          G12
Address family ipv4 unicast (Table ID =      Address family ipv4 unicas
0x3)                                         0x4)
  Flags  0x0                                    Flags  0x0
  Export VPN route-target communities          Export VPN route-target
    RT 100 10                                    RT 200 20
  Import VPN route-target communities          Import VPN route-target
    RT 100 10              RT 200 20            RT 200 20
  No import route-map                          No import route-map
  No global export route-map                   No global export route-m
  No export route-map                          No export route-map
  VRF label distribution protocol  not         VRF label distribution p
configured                                   configured
  VRF label allocation mode  per-prefix        VRF label allocation mod
Address family ipv6 unicast (Table ID -      Address family ipv6 unicas
0x1E000001)                                  0x1E00000?)

    [Output omitted]                             [Output omitted]
```

A network engineer is modifying configurations for a customer that currently uses VPN connectivity between their sites. The customer has added a new spoke site but is does not have reachability to servers located at the hub Based on the output, which statement describes the cause?

A. The interface of VRF HUB and VRF SPOKE do not match
B. The HUB VRF is not exporting Route-Target 200:20
C. The default VPNID is not set on VRF HUB or VRF SPOKE
D. The SPOKE VRF is not importing Route-Target 100:10

Answer: D

NEW QUESTION 105
Which two addresses types are included in NAT?

A. inside global
B. global outside
C. outside internet
D. inside internet
E. outside local

Answer: AE

NEW QUESTION 106
Which OSPF network type uses a DR?

A. Nonbroadcast multi-access
B. point-to-point
C. point-to-multipoint
D. point-to-point nonbroadcast

Answer: A

Explanation: https://learningnetwork.cisco.com/thread/35730

NEW QUESTION 109
You need the IP address of the devices with which the router has established an adjacency. Also, the retransmit interval and the queue counts for the adjacent routers need to be checked. What command will display the required information?

A. show ip eigrp adjacency
B. show ip eigrp topology
C. show ip eigrp interfaces
D. show ip eigrp neighbor

Answer: D

NEW QUESTION 112
Considering the IPv6 address independence requirements, which process do you avoid when you use NPTv6 for translation?

A. rewriting of higher layer information
B. checksum verification
C. ipv6 duplication and conservation
D. IPSEC AH header modification

Answer: A

NEW QUESTION 116
Which statements best describes the following two OSPF commands, which are used to summarize routes? area 0 range 192.168.110.0 255.255.0.0 summary-address 192.168.110.0 255.255.0.0

A. The area range command defines the area where the network reside
B. The summary-address command enables autosummanzation
C. The area range command defines the area where the network reside
D. The summary-address command summanzes a subnet for all areas
E. The area range command specifies the area where the subnet resides and summarizes it to other areas.The summary-address command summarizes external routes
F. The area range command summarizes subnets for a specific are
G. The summary-address commandsummaries a subnet for all areas

Answer: C

NEW QUESTION 118
A network engineer executes the show crypto ipsec sa command which three pieces of information are displayed in the output? (Choose three)

A. tagged packets
B. untagged packets
C. inbound crypto map
D. path MTU
E. invalid identity packets
F. remaininig key

Answer: CDF

NEW QUESTION 119
When does a Cisco router send an ICMP redirect?

A. when the packet's source and destination VRFs are different
B. when the packet is source-routed
C. when the packet's destination has load-balanced entries in the route table
D. when the packet's ingress and egress interfaces are the same

Answer: D

Explanation: C:\Users\wk\Desktop\mudassar\Untitled.jpg

When Are ICMP Redirects Sent?

Cisco routers send ICMP redirects when all of these conditions are met:

- The interface on which the packet comes into the router is the same interface on which the packet gets routed out.
- The subnet or network of the source IP address is on the same subnet or network of the next-hop IP address of the routed packet.
- The datagram is not source-routed.
- The kernel is configured to send redirects. (By default, Cisco routers send ICMP redirects. The interface subcommand no ip redirects can be used to disable ICMP redirects.)

NEW QUESTION 121
Which action is one way to mitigate asymmetric routing on an active/active firewall setup foi TCP-based connections'?

A. disabling asr-group commands on interfaces that are likely to receive asymmetnc traffic
B. performing packet captures
C. disabling stateful TCP checks I
D. replacing them with redundant routers and allowing load balancing

Answer: C

NEW QUESTION 124
Which two statements about IP access lists are true?(Choose two)

A. Extended access lists must include port numbers
B. They support wildcard masks to limit the address bits to which entries are applied
C. Entries are applied to traffic in the order in which they appear
D. They end with an implicit permit
E. IP access lists without at least one deny statement permit all traffic by default

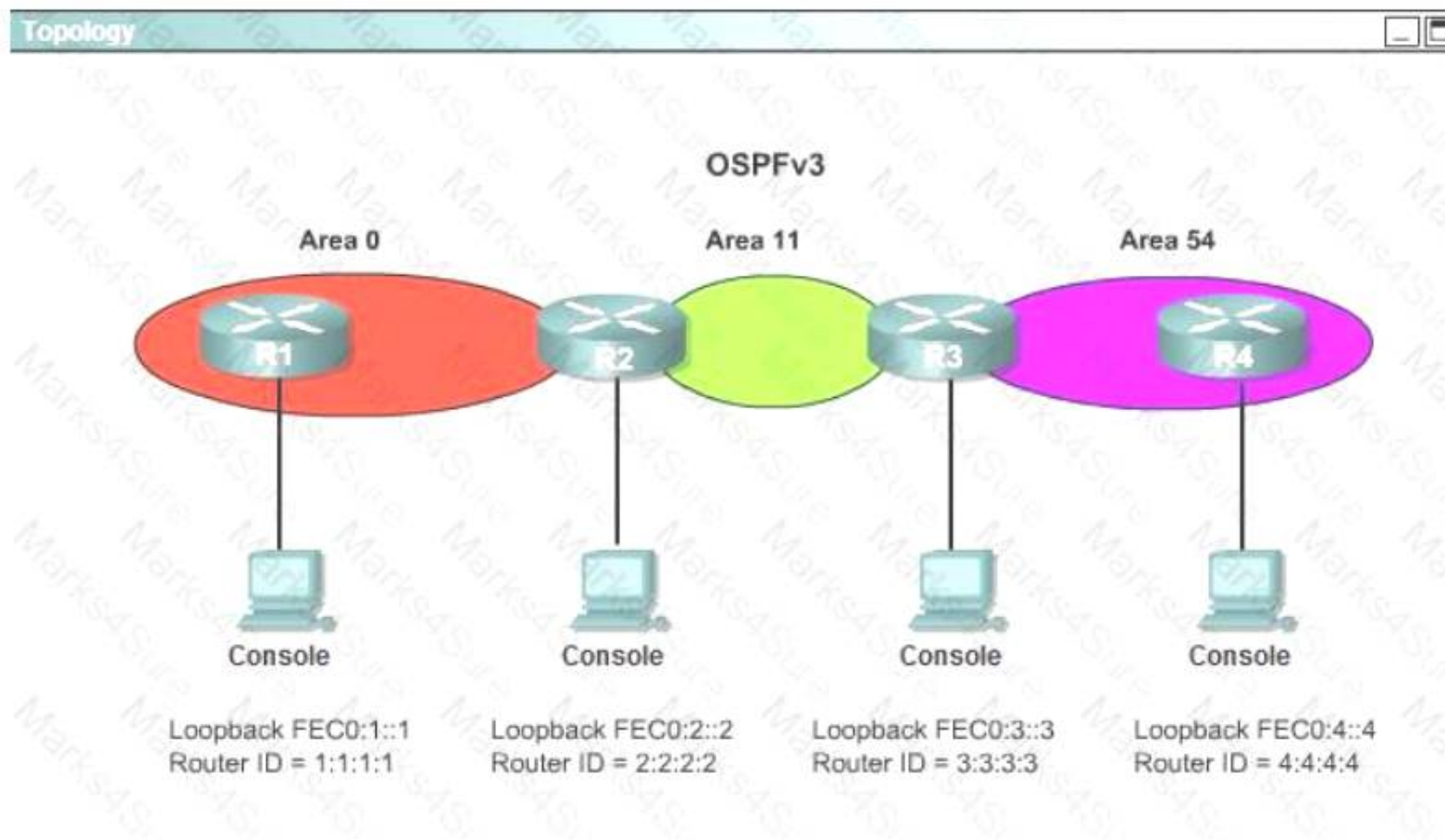**Answer:** BC

NEW QUESTION 129
Which statement is true about EBGP?

A. An internal routing protocol can be used to reach an EBGP neighbor.
B. The next hop does not change when BGP updates are exchanged between EBGP neighbors.
C. A static route can be used to form an adjacency between neighbors.
D. EBGP requires a full mesh.

Answer: C

NEW QUESTION 130
ROUTE.com is a small IT corporation that has an existing enterprise network that is running IPv6 0SPFv3. Currently OSPF is configured on all routers. However, R4's loopback address (FEC0:4:4) cannot be seen in R1's IPv6 routing table. You are tasked with identifying the cause of this fault and implementing the needed corrective actions that uses OPSF features and does not change the current area assignments. You will know that you have corrected the fault when R4's loopback address (FEC0:4:4) can be seen in RTs IPv6 routing table.
Special Note: To gain the maximum number of points you must remove all incorrect or unneeded configuration statements related to this issue.

R1

```
% Some configuration options may have changed
%LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to administratively dow
n
*Wed Oct 15 15:22:47.273: %OSPFv3-5-ADJCHG: Process 1, Nbr 2.2.2.2 on FastEthern
et0/1 from FULL to DOWN, Neighbor Down: Interface down or detached
%LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Wed Oct 15 15:22:57.273: %OSPFv3-5-ADJCHG: Process 1, Nbr 2.2.2.2 on FastEthern
et0/0 from LOADING to FULL,   Loading Done
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state t
o up
*Wed Oct 15 15:22:57.273: %OSPFv3-5-ADJCHG: Process 1, Nbr 2.2.2.2 on FastEthern
et0/0 from LOADING to FULL,   Loading Done
Press RETURN to get started!
R1>
```

R2

```
% Some configuration options may have changed
%LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to administratively dow
n
*Wed Oct 15 15:22:47.273: %OSPFv3-5-ADJCHG: Process 1, Nbr 2.2.2.2 on FastEthern
et0/1 from FULL to DOWN, Neighbor Down: Interface down or detached
%LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Wed Oct 15 15:22:57.273: %OSPFv3-5-ADJCHG: Process 1, Nbr 2.2.2.2 on FastEthern
et0/0 from LOADING to FULL,   Loading Done
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state t
o up
*Wed Oct 15 15:22:57.273: %OSPFv3-5-ADJCHG: Process 1, Nbr 2.2.2.2 on FastEthern
et0/0 from LOADING to FULL,   Loading Done
Press RETURN to get started!
R2>
```

R3 _ _

```
% Some configuration options may have changed
*Wed Oct 15 15:22:47.367: %OSPFv3-5-ADJCHG: Process 1, Nbr 4.4.4.4 on OSPFv3_VL0
 from LOADING to FULL, Loading Done
%LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to administratively dow
n
*Wed Oct 15 15:22:47.273: %OSPFv3-5-ADJCHG: Process 1, Nbr 2.2.2.2 on FastEthern
et0/1 from FULL to DOWN, Neighbor Down: Interface down or detached
%LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Wed Oct 15 15:22:57.273: %OSPFv3-5-ADJCHG: Process 1, Nbr 2.2.2.2 on FastEthern
et0/0 from LOADING to FULL,  Loading Done
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state t
o up
*Wed Oct 15 15:22:57.273: %OSPFv3-5-ADJCHG: Process 1, Nbr 2.2.2.2 on FastEthern
et0/0 from LOADING to FULL,  Loading Done
Press RETURN to get started!
R3>
```

R4 _ _

```
% Some configuration options may have changed
%LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to administratively dow
n
*Wed Oct 15 15:22:47.273: %OSPFv3-5-ADJCHG: Process 1, Nbr 2.2.2.2 on FastEthern
et0/1 from FULL to DOWN, Neighbor Down: Interface down or detached
*Wed Oct 15 15:22:47.367: %OSPFv3-5-ADJCHG: Process 1, Nbr 3.3.3.3 on OSPFv3_VL0
 from LOADING to FULL, Loading Done
%LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Wed Oct 15 15:22:57.273: %OSPFv3-5-ADJCHG: Process 1, Nbr 2.2.2.2 on FastEthern
et0/0 from LOADING to FULL,  Loading Done
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state t
o up
*Wed Oct 15 15:22:57.273: %OSPFv3-5-ADJCHG: Process 1, Nbr 2.2.2.2 on FastEthern
et0/0 from LOADING to FULL,  Loading Done
Press RETURN to get started!
R4>
```

Answer:

Explanation: To troubleshoot the problem, first issue the show running-config on all of 4 routers. Pay more attention to the outputs of routers R2 and R3 The output of the "show running-config" command of R2:

```
<output omitted>
!
ipv6 router ospf 1
router-id 2.2.2.2
log-adjacency-changes
!
<output omitted>
```

The output of the "show running-config" command of R3:

```
<output omitted>
!
ipv6 router ospf 1
router-id 3.3.3.3
log-adjacency-changes
area 54 virtual-link 4.4.4.4
!
<output omitted>
```

We knew that all areas in an Open Shortest Path First (OSPF) autonomous system must be physically connected to the backbone area (Area 0). In some cases, where this is not possible, we can use a virtual link to connect to the backbone through a non-backbone area. The area through which you configure the virtual link is known as a transit area. In this case, the area 11 will become the transit area. Therefore, routers R2 and R3 must be configured with the area <area id> virtual-link <neighbor router-id>command. + Configure virtual link on R2 (from the first output above, we learned that the OSPF process ID of R2 is 1):
R2>enable R2#configure terminal
R2(config)#ipv6 router ospf 1
R2(config-rtr)#area 11 virtual-link 3.3.3.3 Save the configuration:
R2(config-rtr)#end
R2#copy running-config startup-config
(Notice that we have to use neighbor router-id 3.3.3.3, not R2's router-id 2.2.2.2) + Configure virtual link on R3 (from the second output above, we learned that the OSPF process ID of R3 is 1 and we have to disable the wrong configuration of "area 54 virtual-link 4.4.4.4"):
R3>enable R3#configure terminal
R3(config)#ipv6 router ospf 1
R3(config-rtr)#no area 54 virtual-link 4.4.4.4
R3(config-rtr)#area 11 virtual-link 2.2.2.2 Save the configuration:
R3(config-rtr)#end
R3#copy running-config startup-config
You should check the configuration of R4, too. Make sure to remove the incorrect configuration statements to get the full points.
R4(config)#ipv6 router ospf 1
R4(config-router)#no area 54 virtual-link 3.3.3.3 R4(config-router)#end
After finishing the configuration doesn't forget to ping between R1 and R4 to make sure they work.
Note. If you want to check the routing information, use the show ipv6 route command, not "show ip route".

NEW QUESTION 133
Which two statements about GRE tunnel interfaces are true? (Choose two)

A. To establish a tunnel the source interface must be m the up/up state.
B. To establish a tunnel the source interface must be a Joopback.
C. A tunnel destination must be a physical interface that is the up state.
D. A tunnel destination must be routable but can be unreachable.
E. A tunnel can be established when the source interface is in the up/down state.

Answer: CD

NEW QUESTION 134
Refer to the exhibit.

```
DSW1#
*Mar 22 20:51:13.647: %TCP-6-BADAUTH: Invalid MD5 digest from 5.0.0.5(29832) to 51.51.51.1(179) tableid - 0
DSW1#
*Mar 22 20:51:16.131: %TCP-6-BADAUTH: Invalid MD5 digest from 5.0.0.5(29832) to 51.51.51.1(179) tableid - 0
```

All neighbor routers are in the BGP peer group named PEER-1 All passwords are configured as Cisco. These messages are logged to the console of router DSW1. which is peering with router Core. Which two configurations allow a peering session to form between DSW1 and the Core? (Choose two.)

A. Core(config-router)#neighbor 5.0.0.5 peer-group PEER-1 Core(config-router)#neighbor PEER-1 password cisco
B. DSW1(config-router)#neighbor 5.0.0.5 peer-group PEER-1 DSW1(config-router)#neighbor PEER-1 password cisco
C. DSW1(config-router)#neighbor 51.51.51.1 peer-group PEER-1 DSW1(config-router)#neighbor PEER-2 password cisco

D. Core(config-router)#neighbor 51.51.51.1 peer-group PEER-1 Core(config-router)#neighbor PEER-1 password cisco
E. Core(config-router)#neighbor 5.0.0.5 peer-group PEER-2 Core(config-router)#neighbor PEER-1 password cisco

Answer: AC

NEW QUESTION 137
Refer to the exhibit.
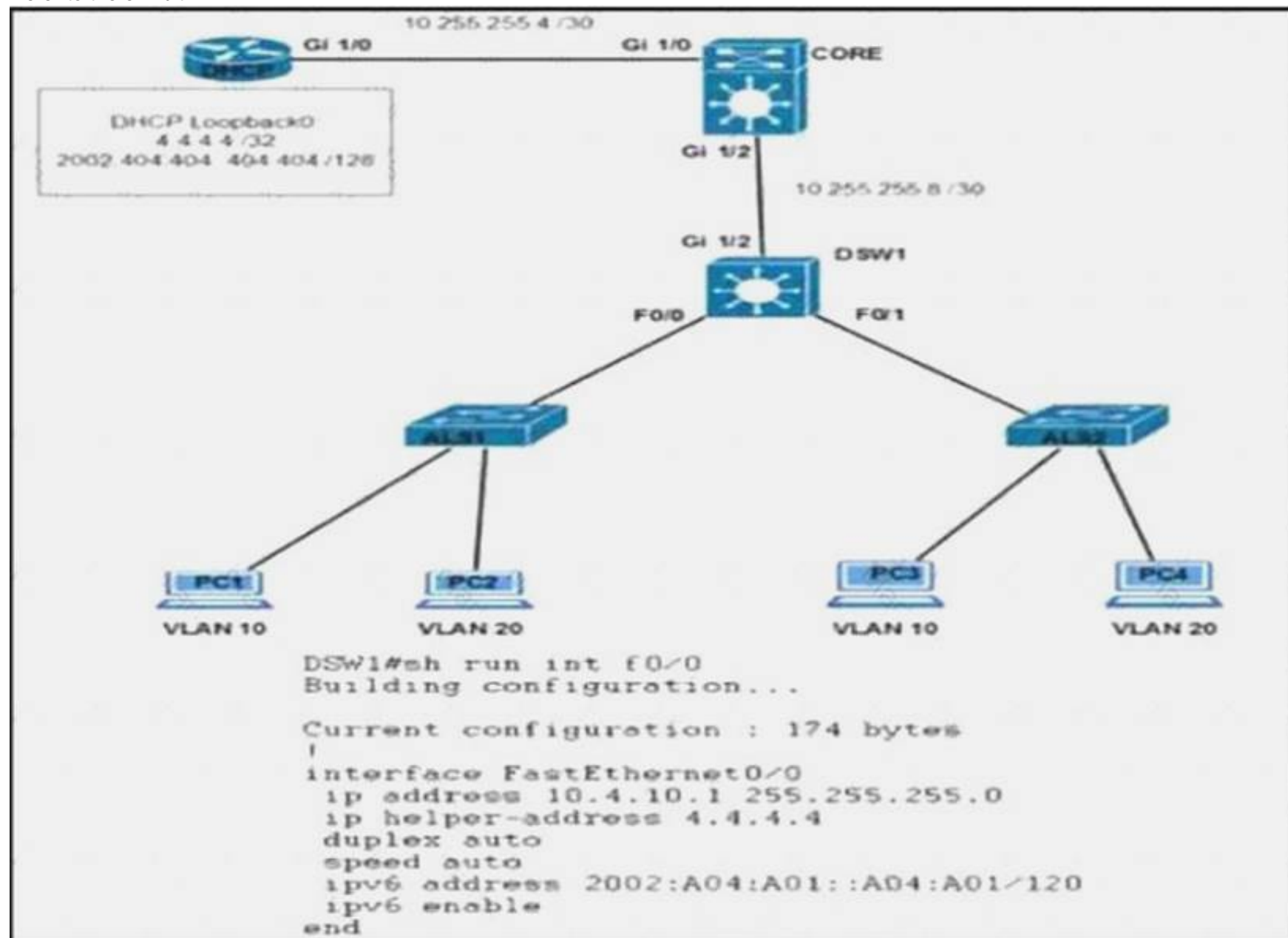
Router DHCP is configured to lease IPv4 and IPv6 addresses to clients on ALS1 and ALS2. Clients on ALS2 receive IPv4 and IPv6 addresses Clients on ALS1 receive IPv4 addresses. Which configuration on DSW1 allows clients on ALS1 to receive IPv6 addresses'?

A. DSW1(cunfig-if)»ipv6 dhcp relay destination 2002:404:404::404:404 GigabitEthernet1/2
B. DSW1(configFipv6 route 2002:404:404: 404:404/128 FastEthemet1/0
C. DSWKconfKj K)cipv6 helper address 2002:404:404:404:404
D. DSW1 uihrp-condg^default-router 2002:A04:A01:A04:A01

Answer: D

NEW QUESTION 138
Refer to the exhibit.

You notice that traffic from R1 to the 192.168.10 0/24 network prefers the path through R3 instead of the least-cost path through R2.What is the most likely reason for this route selection?

A. OSPF prefers external routes over interarea routes.
B. OSPF prefers interarea routes over intra-area routes.
C. OSPF prefers external routes over intra-area routes.
D. OSPF prefers intra-area routes over interarea routes

Answer: D

NEW QUESTION 141
In which network environment is AAA with RADIUS most appropriate?

A. when Apple Talk Remote Access Is in use
B. when NetBIOS Frame Control Protocol is in use
C. when users require access to only one device at a time
D. when you need to separate all AAA services

Answer: C

NEW QUESTION 145
Refer to the exhibit.
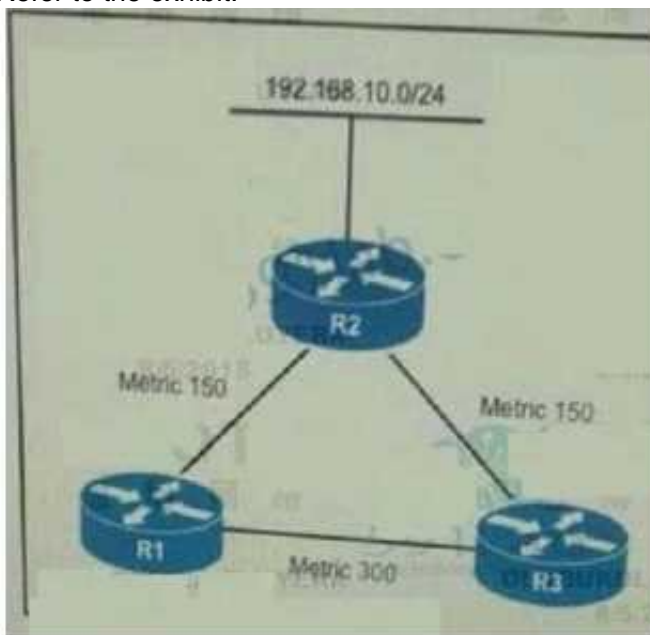
You want router R1 to perform unequal-cost routing to the 192.168.10.0/24 network. What is the smallest EIGRP variance value that you can configure on R1 to achieve this result?

A. 1
B. 2
C. 3
D. 4

Answer: A

NEW QUESTION 149
Which type of Netflow information is displayed when the show ip flow export command is executed?

A. sent status and statistics
B. top talkers
C. export interface configurations
D. local status and statistics

Answer: D

NEW QUESTION 154
Which task must you perform to implement EIGRP for IPv6 on a device?

A. Use the ipv6 cef command to enable Cisco Express Forwarding on the device.
B. Configure a loopback interface on the device.
C. Manually configure the router ID
D. Statically configure a neighbor

Answer: C

NEW QUESTION 159
A network engineer wants to implement an SNMP process for host machines using the strongest security available which command accomplishes this task?

A. router(confi)#snmp-server-host 172-16-200.225 traps v3
B. router(confi)#snmp-server-host 172-16-200.225 traps v2c auth
C. router(confi)#snmp-server-host 172-16-200.225 traps v1
D. router(confi)#snmp-server-host 172-16-200.225 traps v2c

Answer: A

NEW QUESTION 162
A Network engineer recently deployed easy virtual networking in the enterprise network. Which feature
improves shared services support?

A. router replication
B. tunnel feedback
C. routers distinguishers
D. edge interfacing

Answer: A

NEW QUESTION 164
During which DMVPN phase is spoke to-spoke communication enabled?

A. Phase 4
B. Phase 1
C. Phase 2
D. Phase 5

Answer: C

NEW QUESTION 165
You get a call from a network administrator who tells you that he typed the following into his router: Router(config)#router ospf 1
Router(config-router)#network 10.0.0.0 255.0.0.0 area 0
He tells you he still can't see any routes in the routing table. What configuration error did the administrator make?

A. The wildcard mask is incorrect
B. The OSPF area is wrong
C. The OSPF process ID is incorrect
D. The AS configuration is wrong

Answer: A

NEW QUESTION 169
What is the viable successor of NAT_PT?

A. NAT64
B. Pv6
C. NATv6
D. DHCPv6

Answer: A
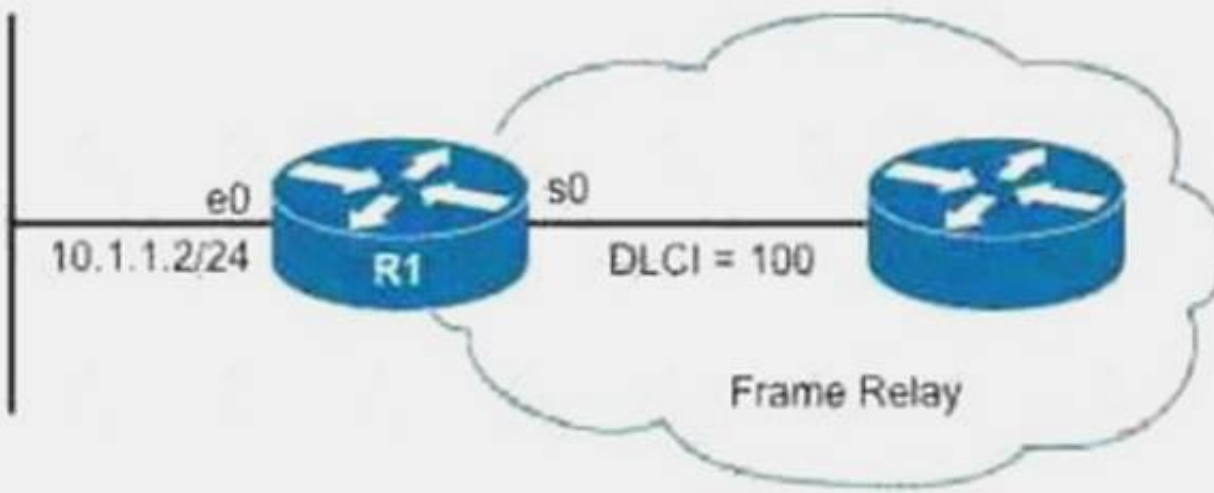
NEW QUESTION 174
Refer to the exhibit.
interface gigabitethernet 2/0/0 vnet trunk
ip address 192.168.1.1 255.255.255.0
vnet name cisco
Which effect of this configuration is true?

A. It designares the interface as a GRE tunnel endpoint
B. It configures 802.1q trunking on the interface
C. It designates the interface as an EVN trunk
D. It removes VTP from the interface

Answer: C

NEW QUESTION 177
Refer to the exhibit.

```
interface Serial0
┌─────────────────────────────────────────┐
│                    A                      │
└─────────────────────────────────────────┘
   encapsulation frame-relay
   frame-relay lmi-type ansi

! subinterface config
┌─────────────────────────────────────────┐
│                    B                      │
└─────────────────────────────────────────┘
┌─────────────────────────────────────────┐
│                    C                      │
└─────────────────────────────────────────┘

interface virtual-template1
   ip unnumbered ethernet 0
┌─────────────────────────────────────────┐
│                    D                      │
└─────────────────────────────────────────┘
```

You are configuring the R1 Serial0 interface for a point-to-point connection. Drag and drop the required configuration statements from the left onto the correct locations from the diagram on the right Not all commands are used.

frame-relay interface-dlci 100 ppp virtual-template1	A
interface serial0.1 point-to-point	B
interface serial0.100	C
ip unnumbered ethernet 0	D
no ip address	
ppp authentication chap	

Answer:

Explanation:

frame-relay interface-dlci 100 ppp virtual-template1	no ip address
interface serial0.1 point-to-point	interface serial0.1 point-to-point
interface serial0.100	frame-relay interface-dlci 100 ppp virtual-template1
ip unnumbered ethernet 0	ppp authentication chap
no ip address	
ppp authentication chap	

NEW QUESTION 178
Other than a working EIGRP configuration which component must be the same on all routers for EIGRP authentication key rollover to work correctly?

A. time
B. SNMP
C. passwords
D. SMTP

Answer: A

NEW QUESTION 183
What is the output of the "show ntp associations" command?

A. Authentication mode
B. Facility configured
C. Shows the NTP synchronized servers configured on the device
D. Security key config

Answer: C

NEW QUESTION 184
Which two statements about uRPF are true? (Choose two)

A. It is enabled on a per-mterface basis CD It is enabled globally
B. Strict mode is most appropriate for networks with asymmetnc routing
C. Strict mode may drop legitimate traffic
D. The keyword any can be used with both strict mode and loose mode
E. Loose mode may drop traffic when asymmetric routing occurs on the network

Answer: AD

NEW QUESTION 188
A network engineer wants to baseline the network to determine suitability for real-time voice applications. Which IP SLA operation is best suited for this task?

A. ICMP-echo
B. ICMP-jitter
C. UDP-connect
D. UDP-jitter
E. TCP-connect
F. UDP-echo

Answer: D

NEW QUESTION 191
Which two statements about password-protecting device access are true? (Choose Two)

A. The more system:running-config command displays encrypted passwords in clear text

B. The service password-encryption command forces a remote device to encrypt the password
C. A network administrator can recover an encrypted password
D. The privilege level command controls the commands a specific user can execute
E. The password can be encrypted in the running configuration

Answer: DE

NEW QUESTION 194
Which Cisco Express Forwarding component maintains the Layer 2 next-hop addresses that are used for hardware switching?

A. FIB
B. RIB
C. adjacency table
D. ARP table

Answer: C

NEW QUESTION 198
Which LAN feature enables a default gateway to inform its end devices when a better path to a destination is available?

A. HSRP
B. proxy ARP
C. ICMP redirects
D. ICMP unreachable

Answer: C

NEW QUESTION 199
Which three benefits does the Cisco Easy Virtual Network provide to an enterprise network? (Choose three)

A. simplified Layer 3 network virtualization
B. improved shared services support
C. enhanced management, troubleshooting, and usability
D. reduced configuration and deployment time for dot1q trunking
E. increased network performance and throughput
F. decreased BGP neighbor configurations

Answer: ABC

NEW QUESTION 201
Which technology is required on an EVN trunk interface?

A. NAT
B. 802.1q
C. VRF-Lite
D. IS-IS

Answer: C

NEW QUESTION 204
A network administrator is attempting to configure IP SLA to allow one time stamp to be logged when a packet arrives on the interface and one time stamp to be logged when a packet leaves the interface. Which IP SLA accuracy tool enables this functionality?

A. Trap
B. RTT
C. Responder
D. Trigger
E. Logging

Answer: B

NEW QUESTION 206
Which statement about spilt-horizon rule for distance vector routing protocols are true? A router advertises a route to an unreachable network with an infinite metric.
A router does not advertise routes to any neighboring router.
A router advertises routes back out the interface on which it learned them with an mfirrte metric.

A. A router does not advertise routes back out the interface on which it learned the

Answer: A

NEW QUESTION 208
Which three methods can a network engineer used to fix a metric-based routing loop in the network?(choose three)

A. Filter routes manually using prefix lists

B. Implement proper network summarization on key routing points
C. Utilize route database filters
D. Filter routes based on tags
E. Implement offset lists at network boundaries
F. Filter routes manually using distribute lists

Answer: DEF

NEW QUESTION 210
If you want to migrate an IS-IS network to another routing protocol with a lower AD? Which two protocol do you consider?

A. UDP
B. internal BGP
C. TCP/IP
D. EIGRP
E. OSPF
F. RIP

Answer: DE

NEW QUESTION 212
50. Which SNMP verification command shows the encryption and authentication protocols that are used in SNMPv3?

A. show snmp vi
B. show snmp user
C. show snmp group
D. show snmp

Answer: B

NEW QUESTION 215
Which two features were added in MSCHAP version 2?(choose 2)

A. Mutual authentication between peers.
B. Using the MD5 hash for stronger security
C. Using three-way handshakes for authentication.
D. Ability to change an expired password
E. Backward-compatibility with MSCHAP version 1.

Answer: AD

NEW QUESTION 216
Refer to the exhibit.

Which LSA type does R3 propagate into Area 1 for the 192.168.10.0/24 network?

A. type 3 LSA
B. type 5 LSA
C. type 7 LSA
D. type 10

Answer: B

NEW QUESTION 218
Your network consists of a large hub-and-spoke Frame Relay network with a CIR of 56 kb/s for each spoke. Which statement about the selection of a dynamic protocol is true?

A. EIGRP would be appropriate if LMI type ANSI is NOT used.
B. EIGRP would be appropriate, because the Frame Relay spokes could be segmented into their own areas
C. EIGRP would be appropriate, because by default, queries are not propagated across the slow speed Frame Relay links.
D. EIGRP would be appropriate, because you can manage how much bandwidth is consumed over the Frame Relay interface.

Answer: D

NEW QUESTION 221
Drag and drop the IPv6 NAT characteristic from the left onto the correct IPv6 NAT category on the right.

supports IPv6 prefix 64:ff9b::/96	network-specific stateful NAT64 prefix
IPv6 prefix assigned by an organization	NAT64
supports application layer gateway	NPTv6
translates 2001:1::/64 to 2001:2::/64	well-known stateful NAT64 prefix

Answer:

Explanation:

supports IPv6 prefix 64:ff9b::/96	translates 2001:1::/64 to 2001:2::/64
IPv6 prefix assigned by an organization	supports IPv6 prefix 64:ff9b::/96
supports application layer gateway	IPv6 prefix assigned by an organization
translates 2001:1::/64 to 2001:2::/64	supports application layer gateway

NEW QUESTION 223
Which feature can mitigate fragmentation issues within network segments that are between GRE endpoints?

A. TCP Flow Control
B. ICMP DF bit
C. TCP MSS
D. PMTU

Answer: D

NEW QUESTION 225
Which two statements about NetFlow templates are true? (Choose two.)

A. Only NetFlow version 9 is template based.
B. NetFlow version 5 and version 9 are template based.
C. Only NetFlow version 5 is template based.
D. Template can increased bandwidth usage.
E. They can increase overall performance.
F. They can reduce bandwidth usage.

Answer: AD

NEW QUESTION 227
In which two ways can split horizon issues be overcome in a Frame Relay network environment? (Choose two)

A. enabling split horizon
B. configuring one physical serial interface with Frame Relay to various remot
C. disabling split horizon
D. configure a loopback interface with Frame Relay to various remote site
E. configuring multiple subinterfaces on a single physical interface to

Answer: CE

NEW QUESTION 229
A network engineer wants to implement an SNMP notification process for host machines using the strongest security available Which command accomplishes this

task?

A. router(config)#snmp-server host 172 16 200 225 traps v2c auth
B. router(config)#snmp-server host 172 16 200 225 traps v1
C. router(config)#snmp-server host 172 16 200.225 traps v3
D. router(config)#snmp-server host 172 16 200 225 traps v2c

Answer: C

NEW QUESTION 233
Which two statements about the OSPF down bit are true? (Choose two)

A. It is set only for LSA types 3,5. and 7
B. It is set only for LSA types 1, 2 and 4
C. It is set only when an OSPF virtual link is created
D. It is set when MP-BGP routes are redistributed into OSPF
E. It is set when OSPF routes are redistributed into BGP

Answer: AD

NEW QUESTION 236
Drag and drop the statement from the left onto the correct IPv6 router security features on the right.

Answer:

Explanation:

NEW QUESTION 239
You are a network engineer with ROUTE.com, a small IT company. ROUTE.com has two connections to the Internet; one via a frame relay link and one via an EoMPLS link. IT policy requires that all outbound HTTP traffic use the frame relay link when it is available. All other traffic may use either link. No static or default routing is allowed.
Choose and configure the appropriate path selection feature to accomplish this task. You may use the Test Workstation to generate HTTP traffic to validate your solution.
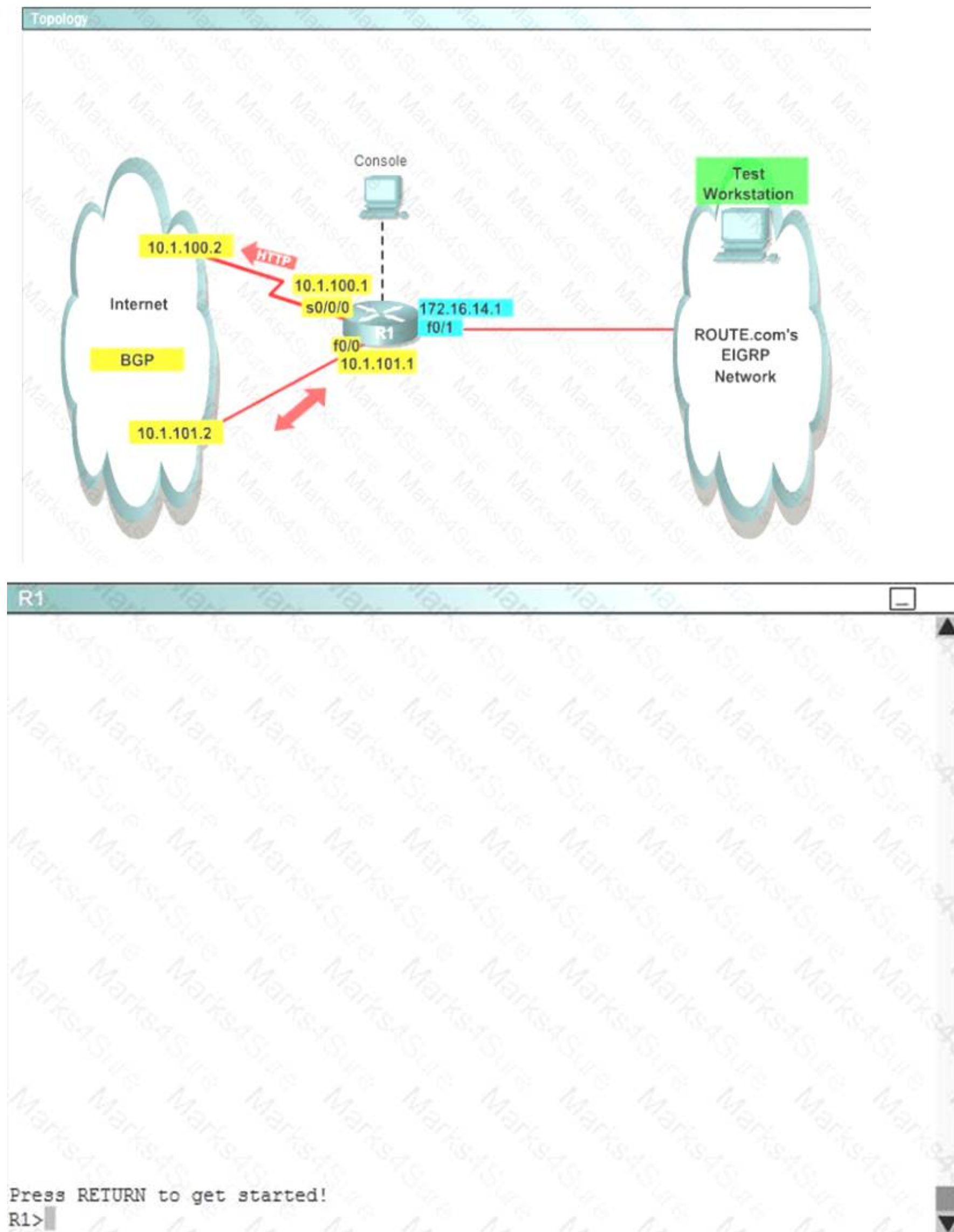
Answer:

Explanation: We need to configure policy based routing to send specific traffic along a path that is different from the best path in the routing table.
Here are the step by Step Solution for this:
1) First create the access list that catches the HTTP traffic: R1(config)#access-list 101 permit tcp any any eq www
2) Configure the route map that sets the next hop address to be ISP1 and permits the rest of the traffic: R1(config)#route-map pbr permit 10
R1(config-route-map)#match ip address 101 R1(config-route-map)#set ip next-hop 10.1.100.2 R1(config-route-map)#exit
R1(config)#route-map pbr permit 20

3) Apply the route-map on the interface to the server in the EIGRP Network: R1(config-route-map)#exit
R1(config)#int fa0/1
R1(config-if)#ip policy route-map pbr R1(config-if)#exit
R1(config)#exit
First you need to configure access list to HTTP traffic and then configure that access list. After that configure the route map and then apply it on the interface to the server in EIGRP network.

NEW QUESTION 243
which the Valid range for BGP private ASNs?

A. 64512-65535
B. 62464-65534
C. 64512-65024
D. 62464-64511

Answer: A

NEW QUESTION 246
Which two features does RADIUS combine?(Choose two)

A. authorization
B. authentication
C. ssh
D. accounting
E. Telnet

Answer: AB

NEW QUESTION 248
Which two types of threshold can you configure for tracking objects? (Choose two.)

A. weight
B. MTU
C. percentage
D. bandwidth
E. delay
F. administrative distance

Answer: AC

NEW QUESTION 252
A router with default RIPv2 settings loses connectivity to it's next-hop neighbor.
How long downs the router wait before removing the route to the next hop from its route table?

A. 30 secconds
B. 60 secconds
C. 180 secconds
D. 240 secconds

Answer: D

NEW QUESTION 253
Which type of message does a device configured with the eigrp stub command send in response to EIGRP queries?

A. invalid request
B. unavailable
C. stuck in active
D. stub-only
E. reject
F. inaccessible

Answer: F

NEW QUESTION 256
Which feature mitigates fragmentation issues caused by endpoint hosts?

A. MSS HMTU
B. ICMP
C. ICMP DF bit
D. TCP How Control

Answer: B

NEW QUESTION 260
Which two features are provided by EIGRP for IPv6?(choose two)

A. Backbone areas
B. SPF algorithm
C. Partial updates
D. Area border router
E. Scaling

Answer: CE

NEW QUESTION 264
Which command sequence can you enter on a router to configure Unicast Reverse Path Forwarding in loose mode?

A. interface GigabitEthernet0/0 ip verify unicast source reachable-via loose
B. interface GigabitEthernet0/0 ip verify unicast source reachable-via all
C. interface GigabitEthernet0/0 ip verify unicast source reachable-via any
D. interface GigabitEthernet0/0 ip verify unicast source reachable-via rx

Answer: C

NEW QUESTION 268
Which statement about dynamic NAT is true?

A. It maps inside addresses to different port numbers.
B. It creates a one-to-one mapping of inside addresses to a global address.
C. It uses the overload command to map addresses.
D. It maps inside addresses to a pool of global addresses.

Answer: D

NEW QUESTION 270
What is the role of a route distinguisher in a VRF-Lite setup implementation?

A. It extends the IP address to identify which VRF instance it belongs to.
B. It manages the import and export of routes between two or more VRF instances
C. It enables multicast distribution for VRF-Lite setups to enhance EGP routing protocol capabilities
D. It enables multicast distribution for VRF-Lite setups to enhance IGP routing protocol Capabilities

Answer: A

NEW QUESTION 272
What is the maximum number of hops on a route that RIPng advertises as reachable?
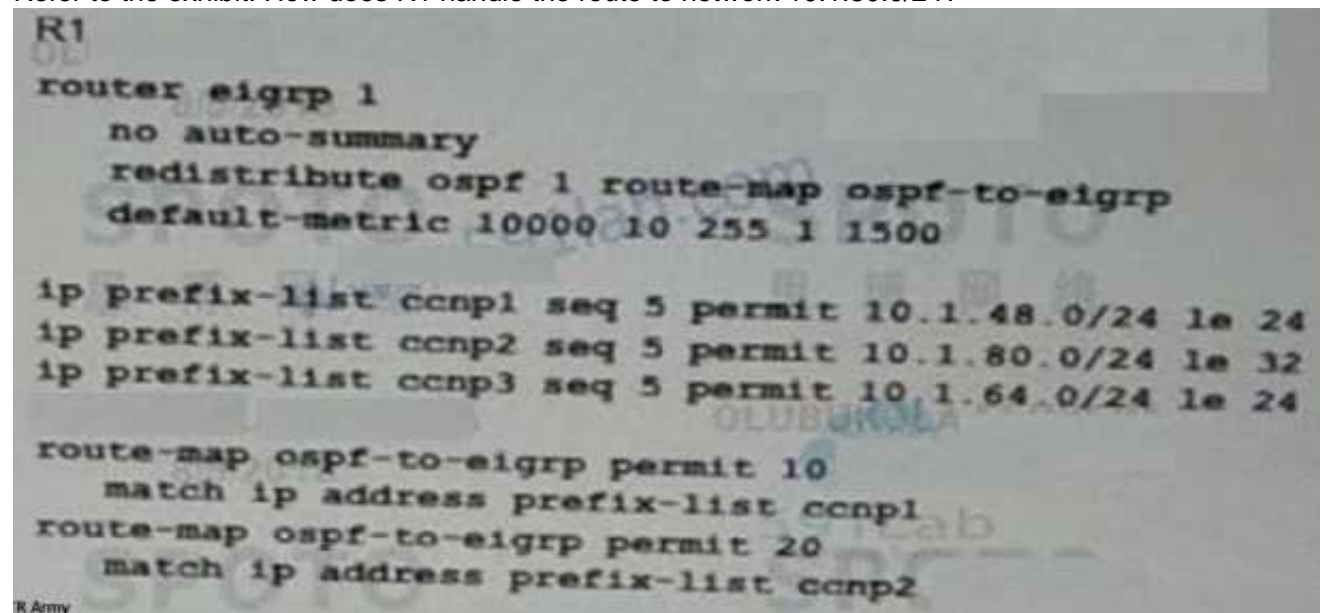
A. 15
B. 30
C. 99
D. 255

Answer: A

Explanation: https://quizlet.com/166800413/ccnp-ripng-flash-cards/

NEW QUESTION 274
Refer to the exhibit. How does R1 handle the route to network 10.1.80.0/24?

A. R1 redistributes network 10.1.80.0/24 into EIGRP without changing the mask
B. R1 changes the mask to /32 and then redistributes network 10.1.80.0/24 into EIGRP as a classful network
C. R1 changes the mask to /32 and then redistributes network 10.1.80.0/24 into EIGRP as a assless network
D. R1 fails to redistribute network 10.1.80.0/24 into EIGRP

Answer: A

NEW QUESTION 277
Refer to the exhibit.

```
Router# show processes cpu sorted
Router# show processes memory sorted
```

Based on Cisco best practice, which statement about the output is true?

A. The output should be analyzed by a network engineer before executing any debug commands on an IOS router in production
B. The output should be analyzed by a network engineer before executing any configuration commands on an IOS router in production
C. The output should be analyzed by a network engineer before allocating additional memory and CPU usage to processes on an IOS router in production
D. The output should be analyzed by a network engineer before executing other show commands on an IOS router in production

Answer: A

NEW QUESTION 279
Which command do you enter on router R6 so that BGP supports multiple protocols'?

A. R6(config-router-af)#bgp additional-paths install
B. R6(config-router-af)#no bgp default ipv4-multicast
C. R6(config-router)#no address-family ipv4 unicast
D. R6(config-router)#bgp default ipv4-multicast
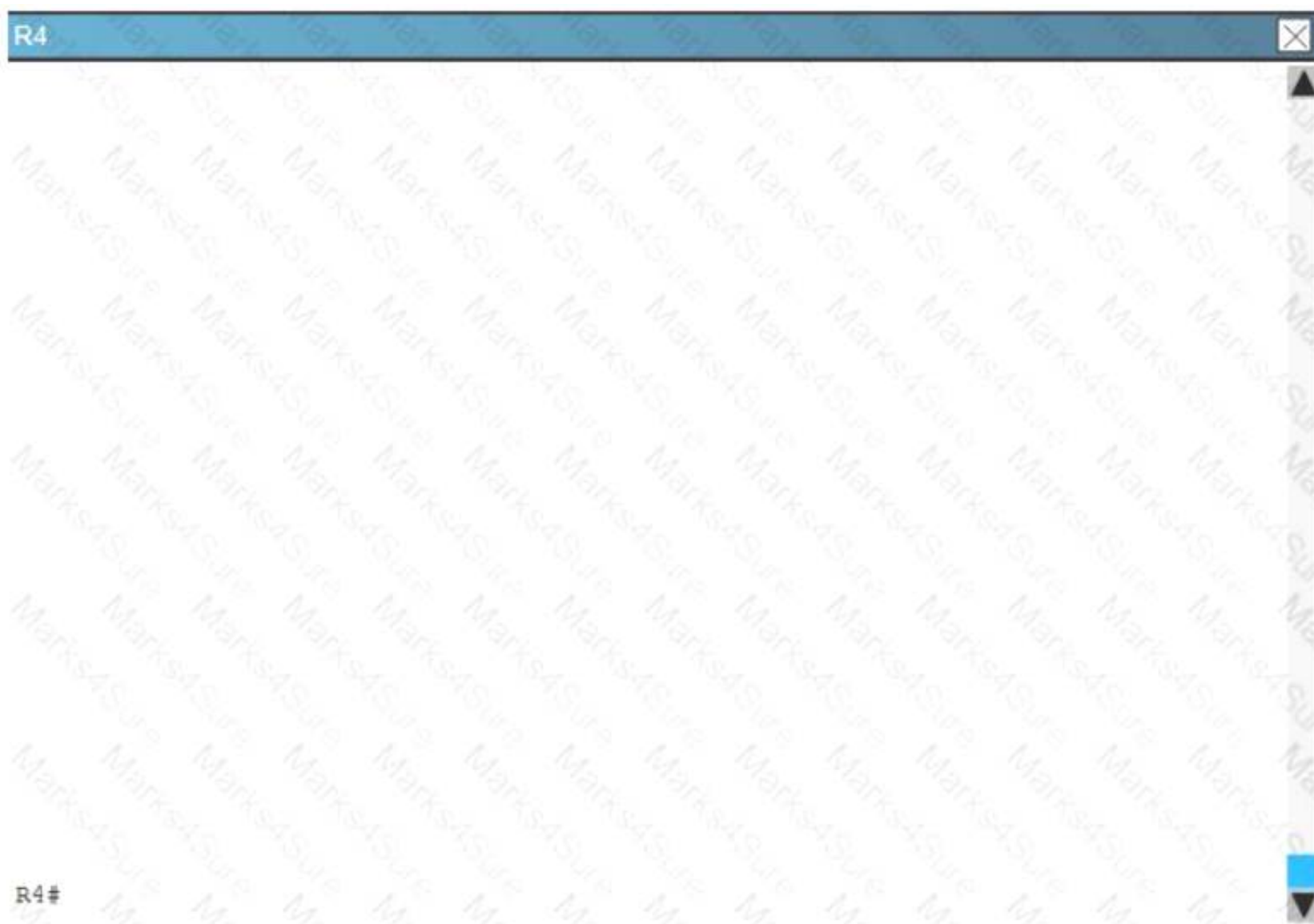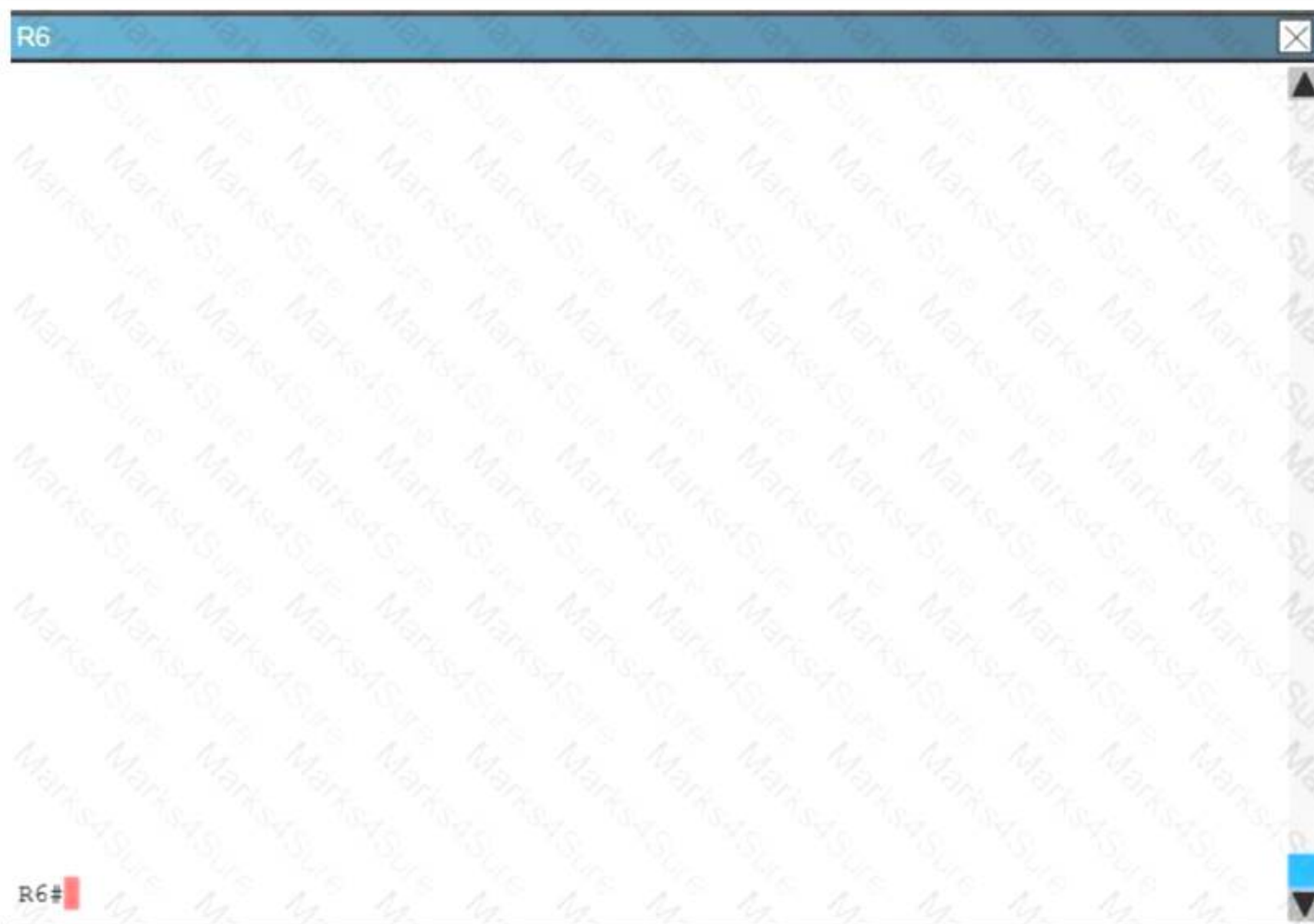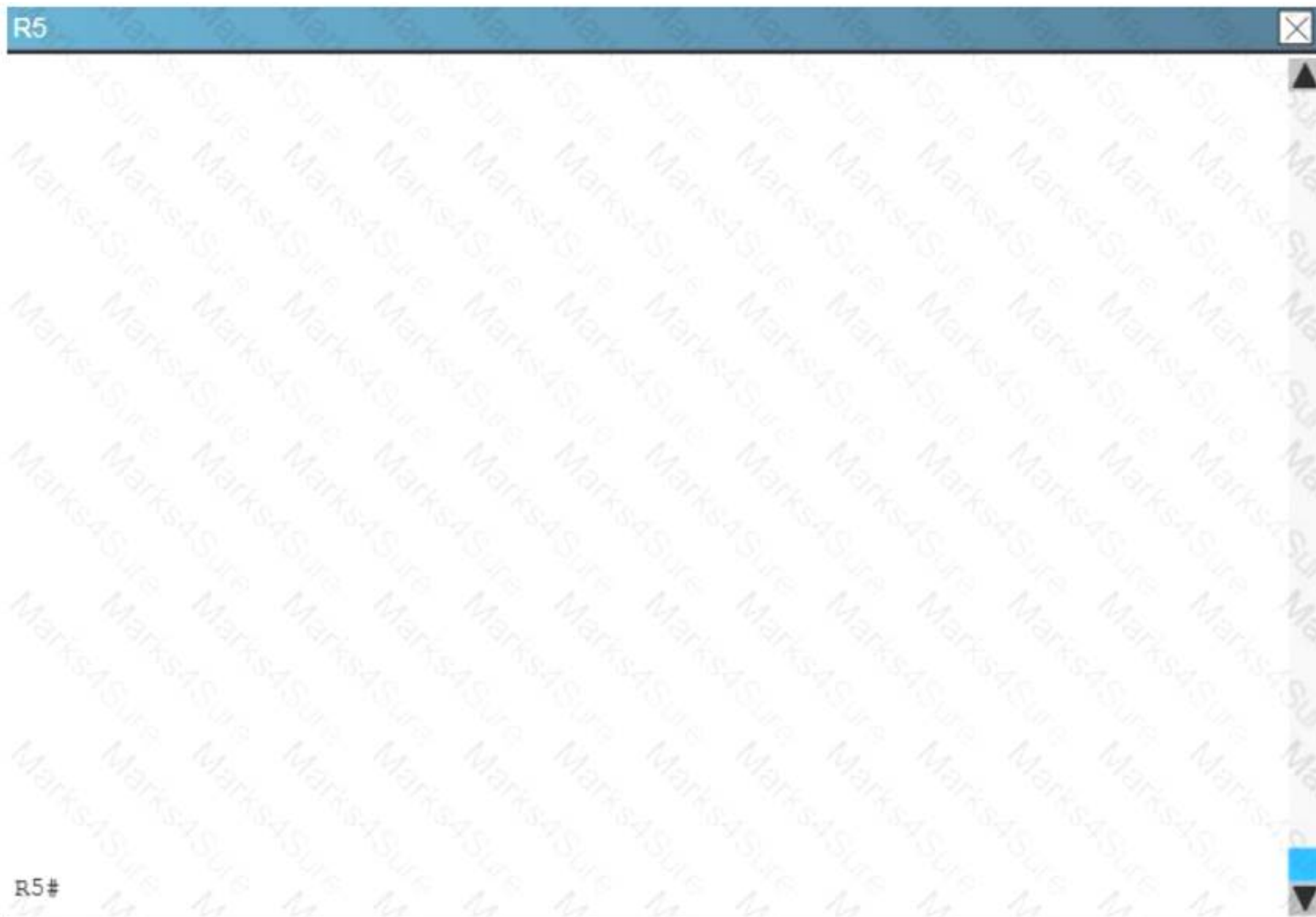E. R6(config-router)#no bgp default ipv4-unicast I

Answer: E

NEW QUESTION 282
You have been asked to evaluate how EIGRP is functioning in a customer network.

R1

R1#

R2

R2#

R3

R3#

R4

R4#

```
R5                                                                    ☒


















R5#
```

```
R6                                                                    ☒
















R6#
```
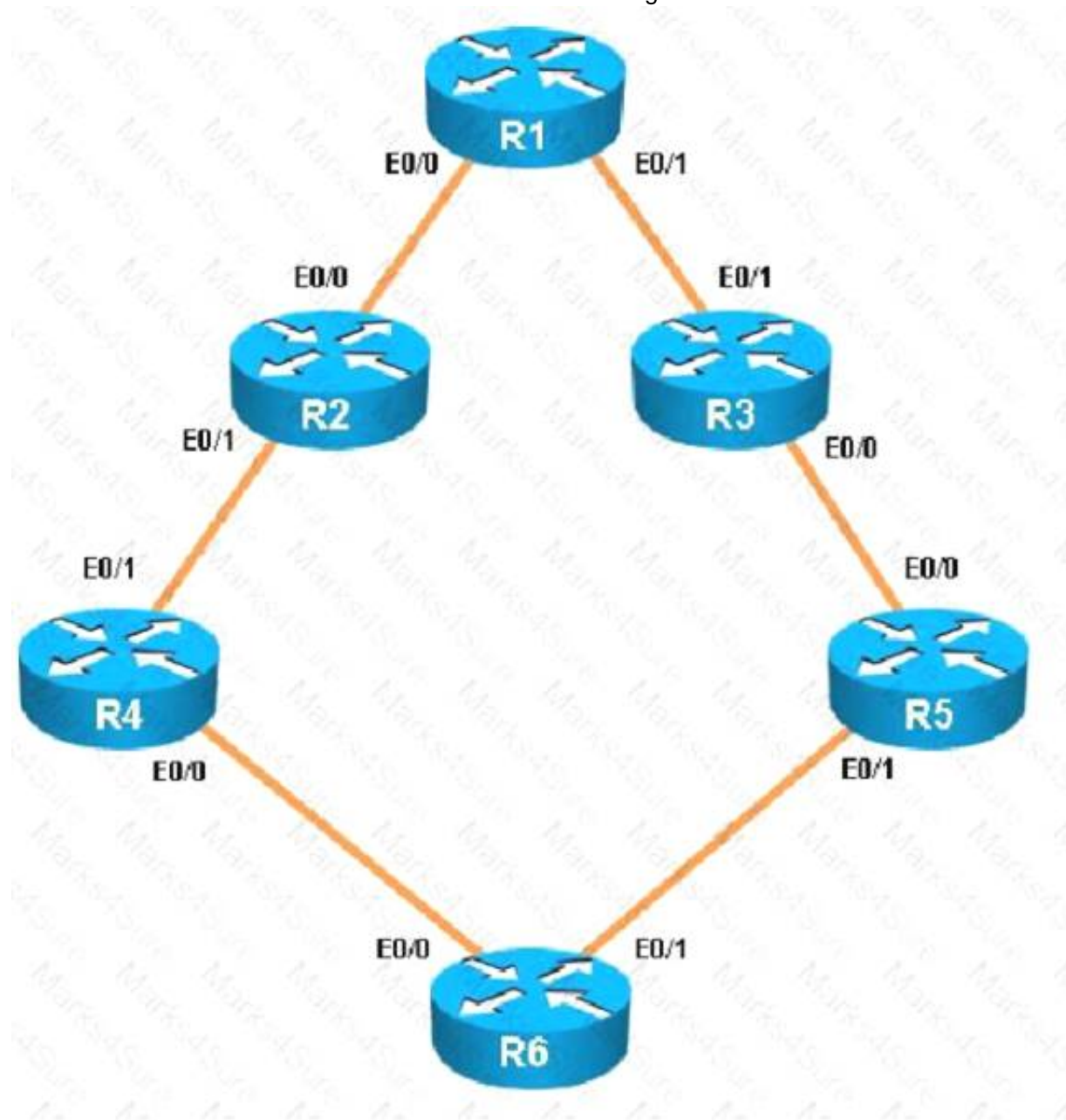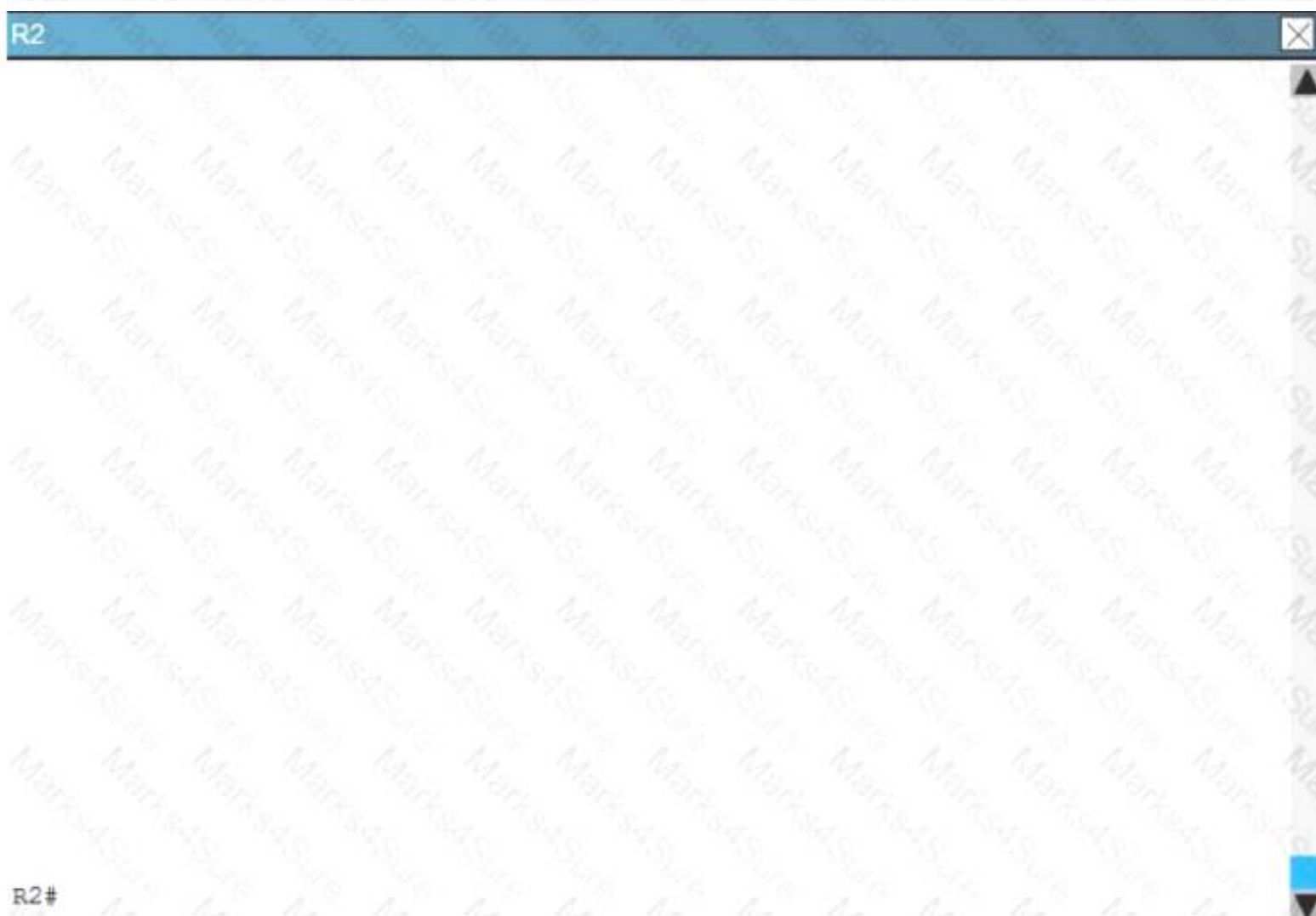
What type of route filtering is occurring on R6

A. Distribute-list using an ACL
B. Distribute-list using a prefix-list
C. Distribute-list using a route-map
D. An ACL using a distance of 255

Answer: A

NEW QUESTION 283
Which statement about IP SLA feature is true?

A. It ensures that there are appropriate levels of service for network applications
B. It classifies various traffic types by examining information within Layers 3 through 7
C. It measures how the network treats traffic for specific applications by generating traffic that bears similar characteristics to application traffic.
D. It keeps track of the number of packets and bytes that are observed in each flow by storing information in a cache flow

Answer: A

NEW QUESTION 286
R1 is unable to ping interface S0/0 of R2. What is the issue the configuration that is shown here?
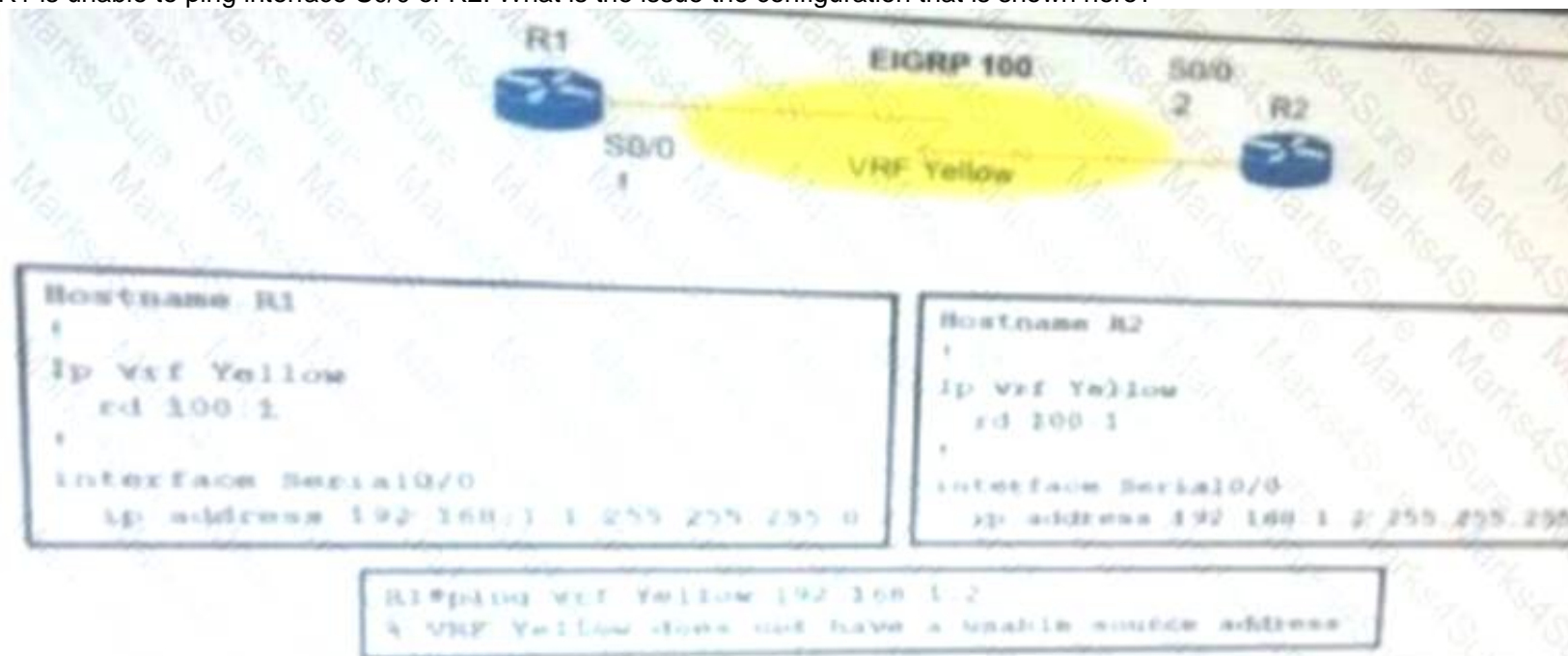
A. The route-target configuration command is missing.
B. The interface IP addresses are not in the same subnet.
C. The syntax of the ping command is wrong.
D. The default route configuration is missing.
E. The serial interfaces belong to the global table instead of vrf Yellow.

Answer: E

NEW QUESTION 290
How big is the smallest packet that will always be fragmented on a standard Ethernet network with default configuration?

A. 1500 bytes
B. 1800 bytes
C. 2048 bytes
D. 2100bytes

Answer: A

NEW QUESTION 293
A network engineer wants to display the statistics of an active tunnel on a DMVPN network Which command must the administrator execute to accomplish this task?

A. router#show crypto ipsec so
B. router#show crypto isakmp sa
C. router#show crypto isakmp peers
D. routerfaceshow crypto ipsec transform-set
E. router#show crypto engine connections active

Answer: A

NEW QUESTION 294
Which option is one way to mitigate symmetric routing on an active/active firewall setup for TCP based connections?

A. performing packet captures
B. disabling asr-group commands on interfaces that are likely to receive asymetnc traffic
C. replacing them with redundant routers and allowing load balancing
D. disabling stateful TCP checks

Answer: D

NEW QUESTION 296
Under which circumstance can TCP starvation occur?

A. when DNS and TFTP traffic are transmitted on the same link
B. when TCP traffic is blocked by an ACL
C. when UDP traffic is processed in a policy-map before TCP traffic
D. when Http and Https traffic are transmitted on the same link

E. when TCP and UDP traffic are mixed in the same class of service

Answer: E

NEW QUESTION 297
how route tags can be set (choose two)

A. only with route-maps
B. only with taglists
C. can be set with route-maps
D. can be set with taglist.
E. only used on link state RPs.

Answer: CD

NEW QUESTION 299
Which statement about stateless and tasteful IPv6 auto configuration is true?

A. Both stateless and stateful configuration require additional setup.
B. Stateless autofiguration requires no additional setup whereas stateful autoconnguration requires additional setup
C. Stateless autoconftguraton requires additional setup whereas stateful autoconfiguration requires noadditional setup.
D. Both stateless and stateful autoconfiguration require no additional setup.

Answer: D

NEW QUESTION 304
Drag and Drop the Frame Relay LMI extensions from the left onto the correct descriptions on the right.

Answer:

Explanation: + Address registration – allows neighboring Cisco devices to exchange the management ip addresses
+ Global addressing – Enables Frame Relay to identify interfaces in same manner as LAN
+ Multicasting – Provides most efficient transmission of routing protocol messages and support address resolution
+ Simple flow control – Supports devices that are unable to use congestion notification
+ Virtual circuit – Prevents data from being transmitted in black hole

NEW QUESTION 308
Which SNMP version provides both encryption and authentication?

A. SNMPv4
B. SNMPv2c
C. SNMPv3
D. SNMPv1

Answer: C

NEW QUESTION 312
Which command can be entered on router R5 to configure 80 percent of the bandwidth of a link for EIGRP Autonomous System 55?

A. R5(config-if)#ip bandwidth percent eigrp bandwidth 55 80

B. R5(config-pmap-c)#priority percent 80 C R5(config-if)#ip
C. R5(config-if)#ip bandwidth percent eigrp 80 55
D. R5(config-if)#ipv6 bandwidth-percent eigrp 80 55
E. R5(config-if)#ipv6 bandwidth-percent eigrp 55 80

Answer: E

NEW QUESTION 316
Which routing protocol does DMVPN support? (Choose three)

A. ISIS
B. RIP
C. EIGRP
D. OSPF
E. BGP

Answer: CDE

NEW QUESTION 321
Traffic from R1 to R6 loopback address is load shared between R1-R2-R4-R6 and R1-R3-R5-R6 path. What is the ratio of the traffic over each path?
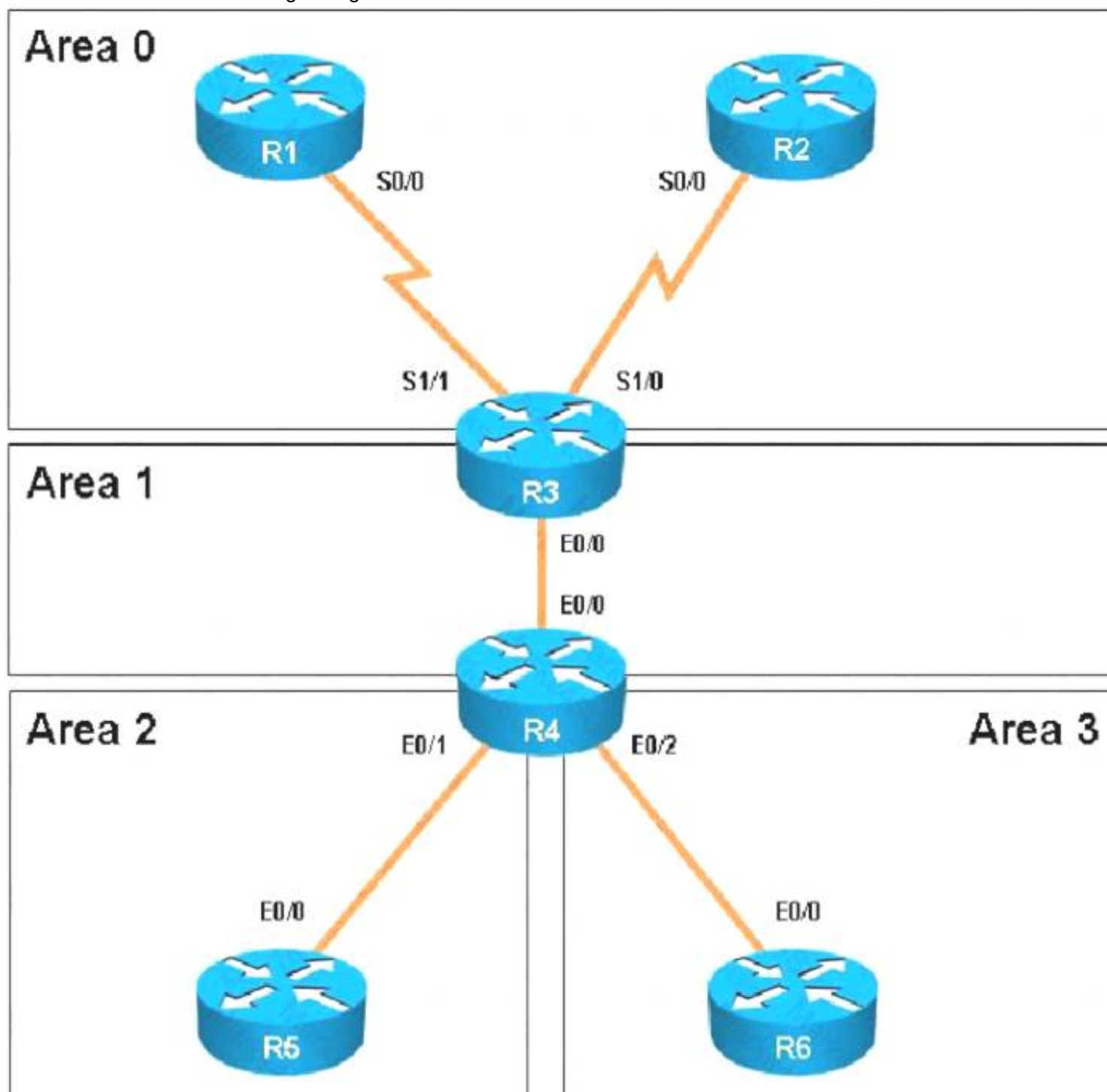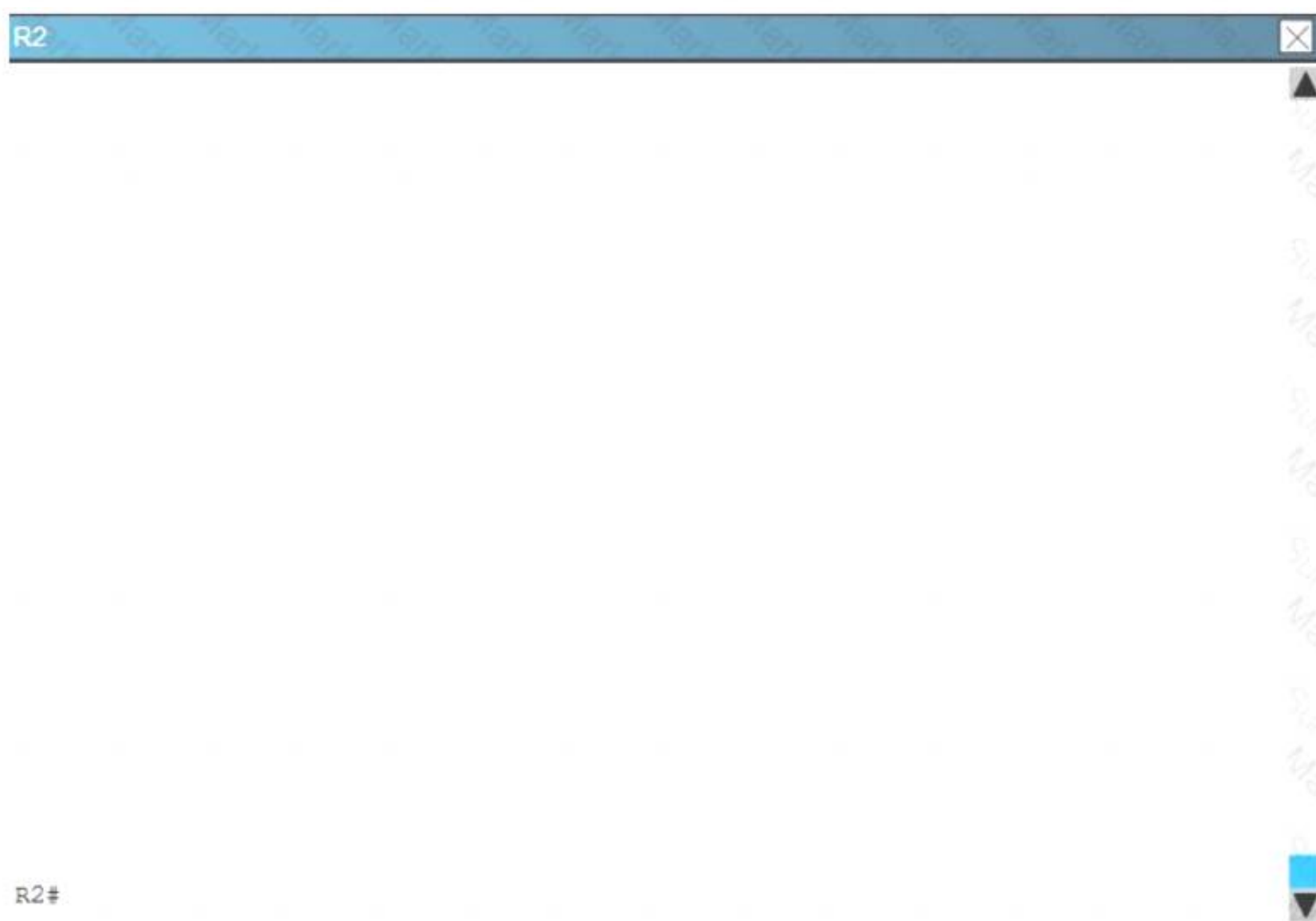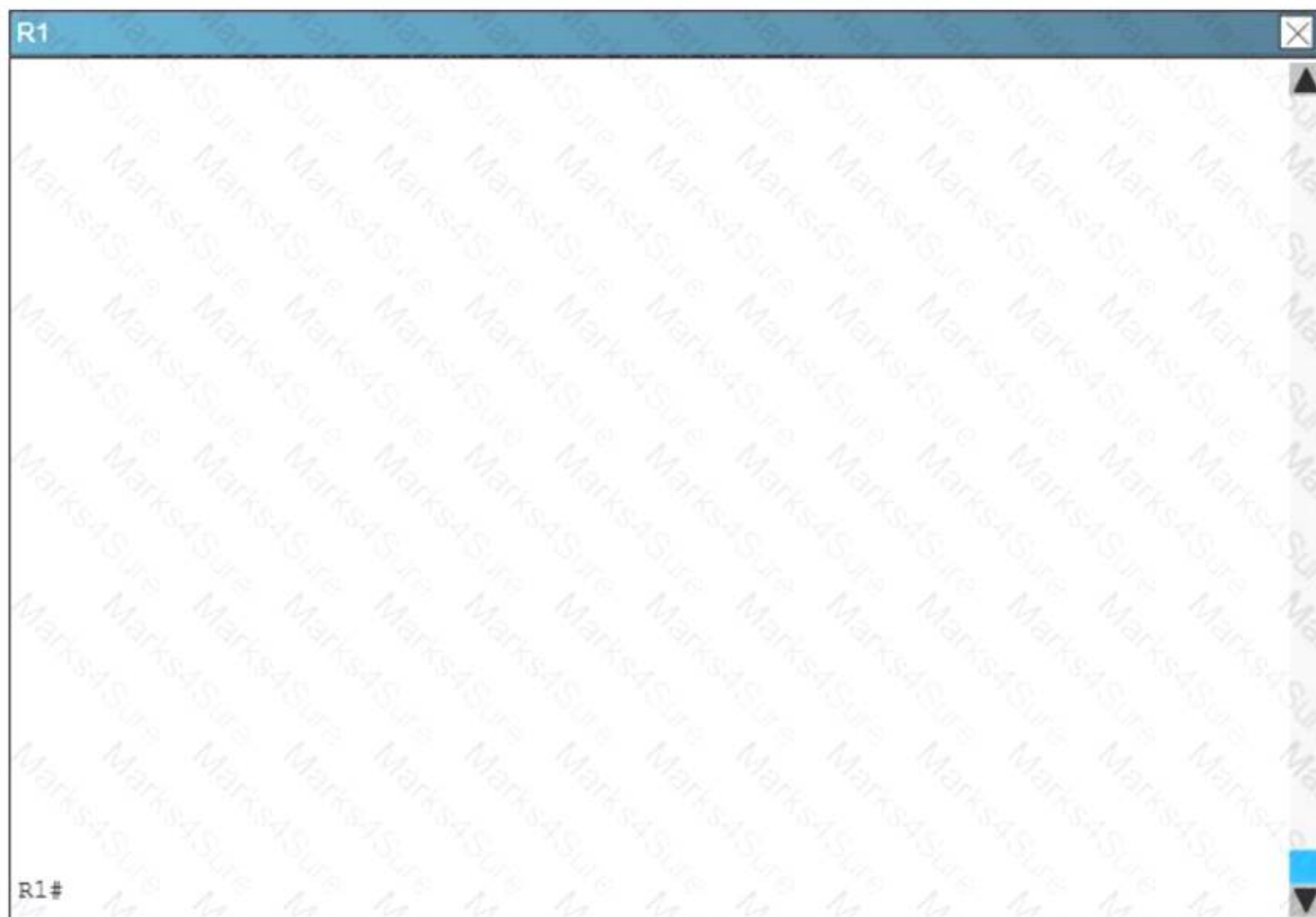
A. 1:1
B. 1:5
C. 6:8
D. 19:80

Answer: D

NEW QUESTION 323
Scenario:
You have been asked to evaluate an OSPF network setup in a test lab and to answer questions a customer has about its operation. The customer has disabled your access to the show running-config command.

R1

R1#

R2

R2#

R3

R3#

R4

R4#

R5

R5#

R6

R6#

How many times was SPF algorithm executed on R4 for Area 1?

A. 1
B. 5
C. 9
D. 20
E. 54
F. 224

Answer: C

NEW QUESTION 324
Which condition must be met before you can configure SSH on a device running Cisco IoS?

A. The device must have an auxilary port.
B. The device must have a modem connection.
C. The IoS must be a crypto in
D. Telnet must be disabled on the device

Answer: C

NEW QUESTION 327
Which two statements about Frame Relay point-point connections are true?

A. They can operate normally without a DLCI map.
B. The device can establish a pout to-point connection to the cloud without a DLCI.
C. They use two DLCIs to communicate with multiple endpoints over the Frame Relay cloud.
D. Changing a point-to-port subinterface to a different type requires the device to be reloaded.
E. Each physical interface that extends to the Frame Relay cloud can support a SVC.

Answer: CD

NEW QUESTION 330
Which two features does RADIUS combine?(Choose two)

A. authorization
B. authenticate
C. ssH
D. accounting
E. Telnet

Answer: AB

NEW QUESTION 334
Which command is implemented to configure an enable password that uses an encrypted password from another configuration?

A. enable secret 6 $abc°/.!#.Cd34$!ao0
B. enable secret Sabc%!#.Cd34S!ao0
C. enable secret 5 $abc%!#.Cd34$!ao0
D. enable secret 15 $abc%!#.Cd34$!ao0
E. enable secret 7 Sabc%!#.Cd34$!ao0

Answer: D

NEW QUESTION 336
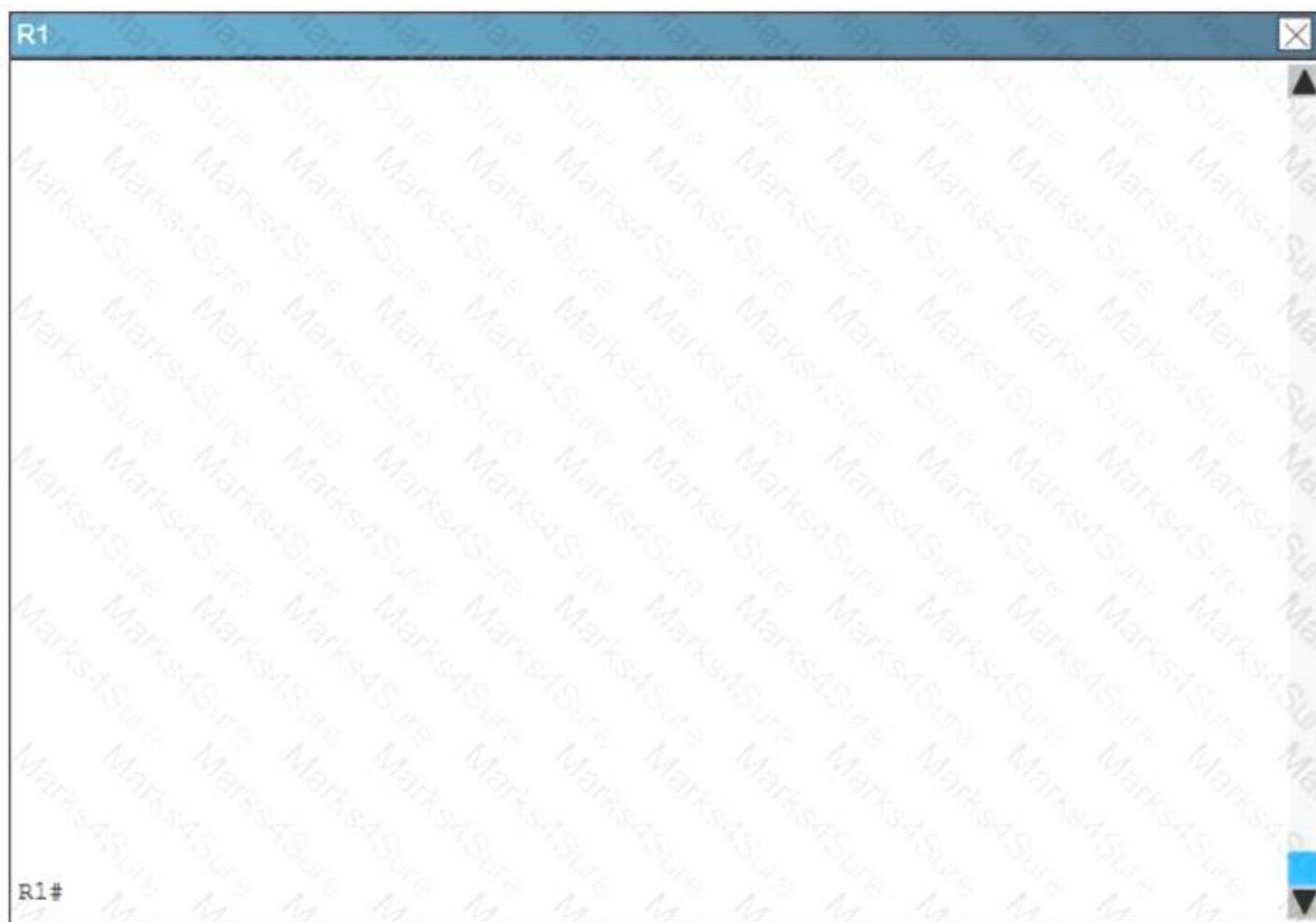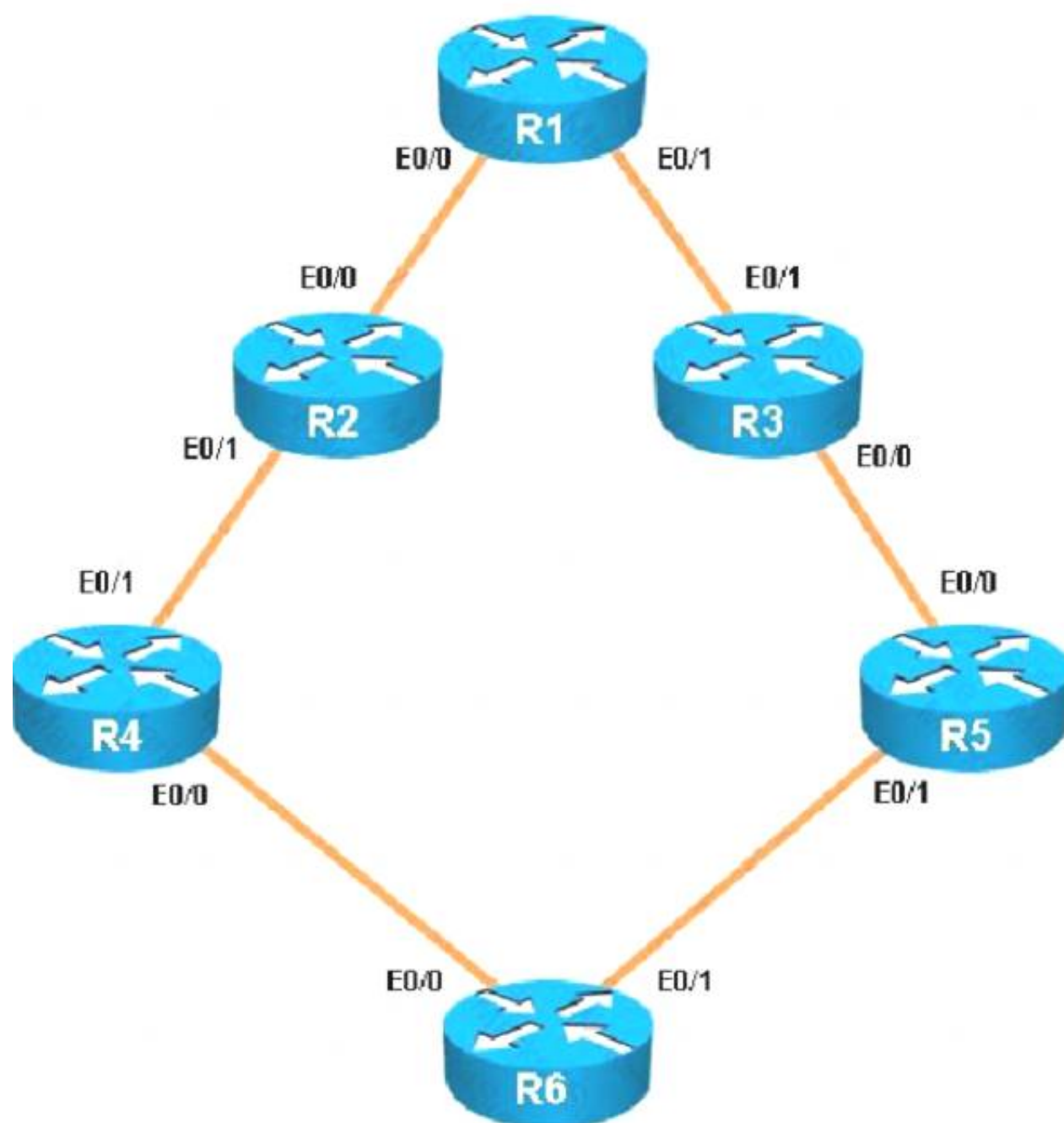A route map was configured and it was distributing OSPF external routes

A. Distributing E1 only
B. Distributing E1 and E2 using prefix list
C. Distributing E1 and E2 using access list
D. Distributing E2 routes

Answer: B

NEW QUESTION 340
You have been asked to evaluate how EIGRP is functioning in a customer network.

R1

R1#

R2 ☒

```
R2#
```

R3

```
R3#
```

R4

R4#

R5

R5#

R6

R6#
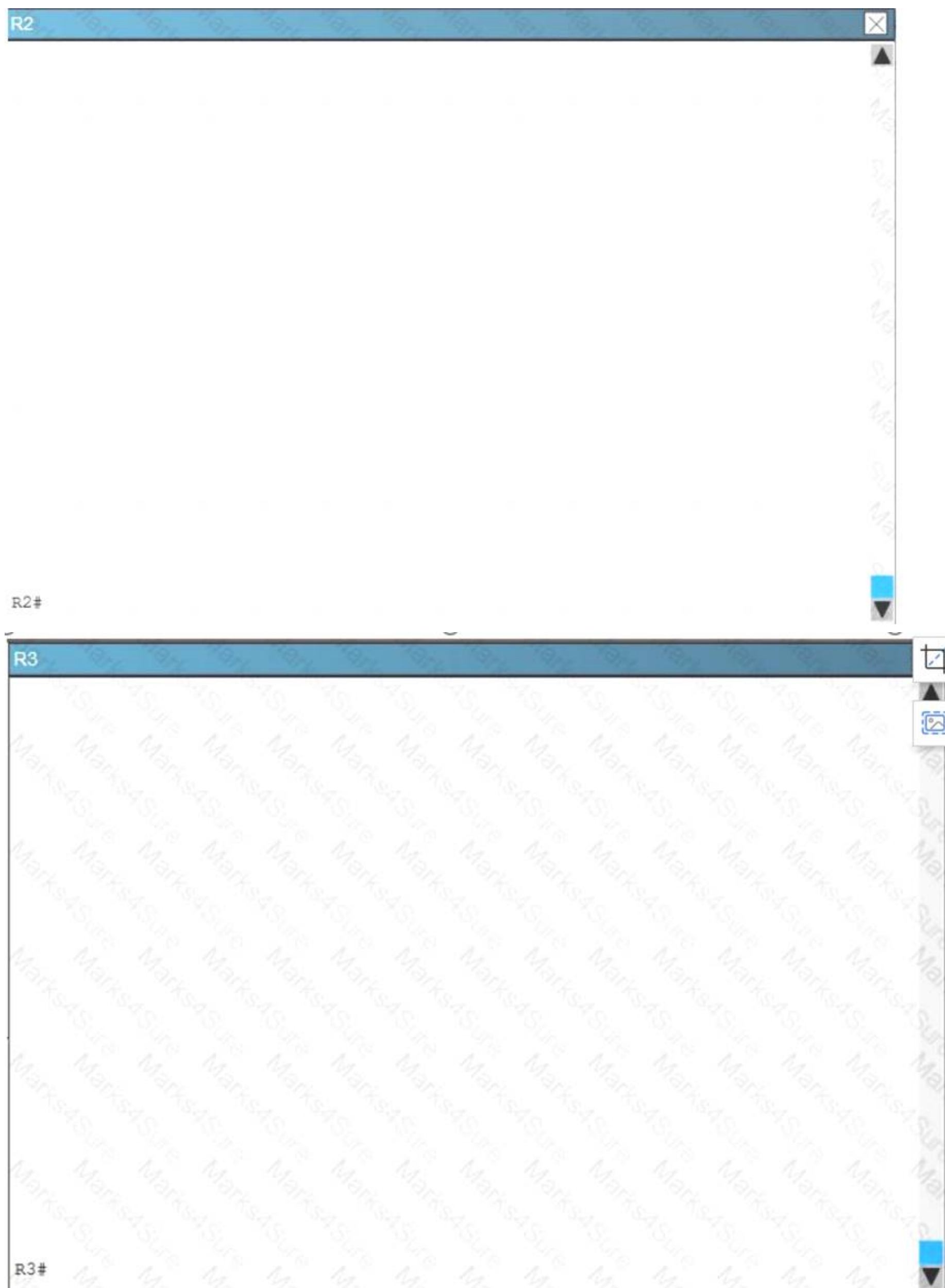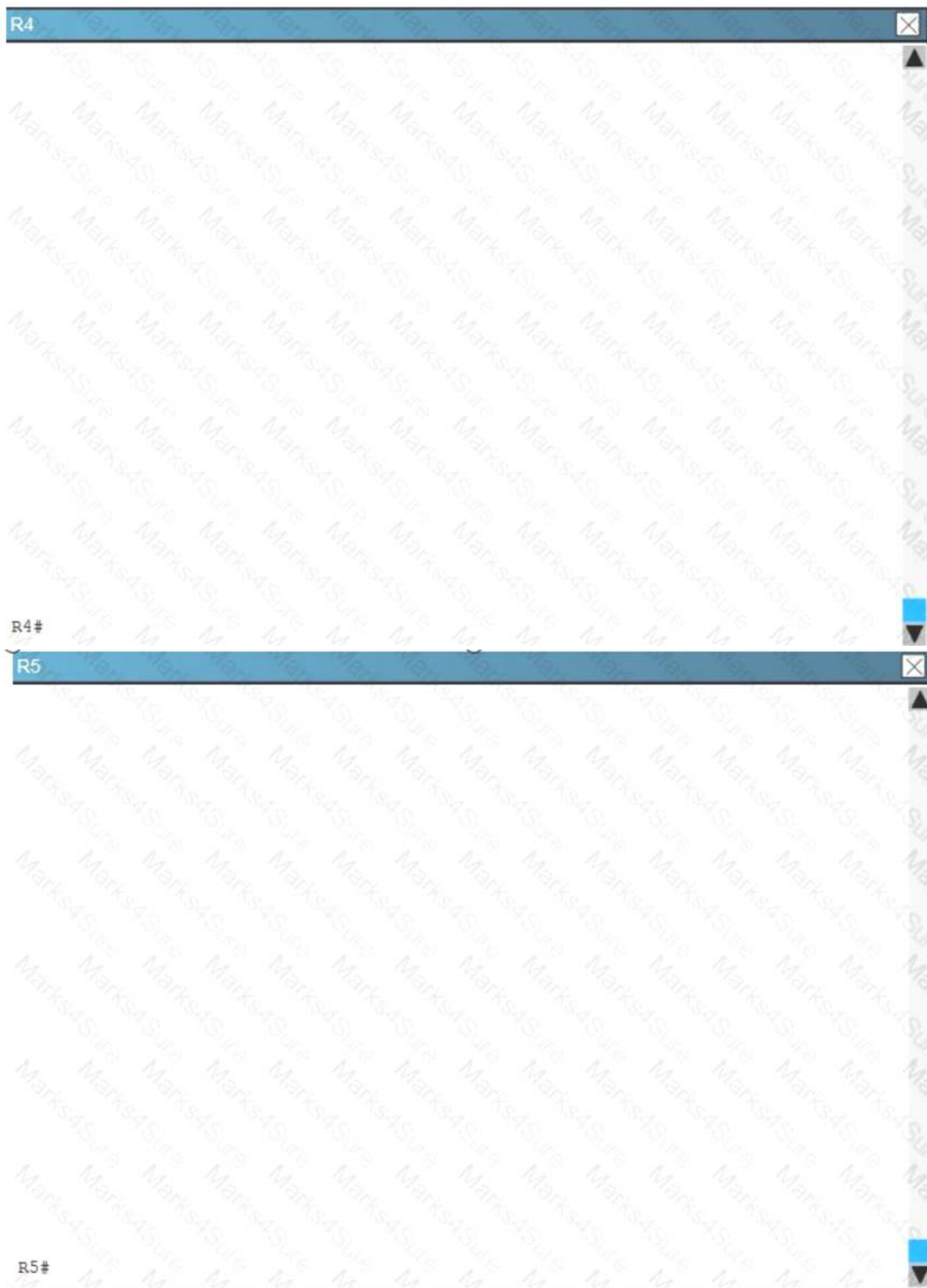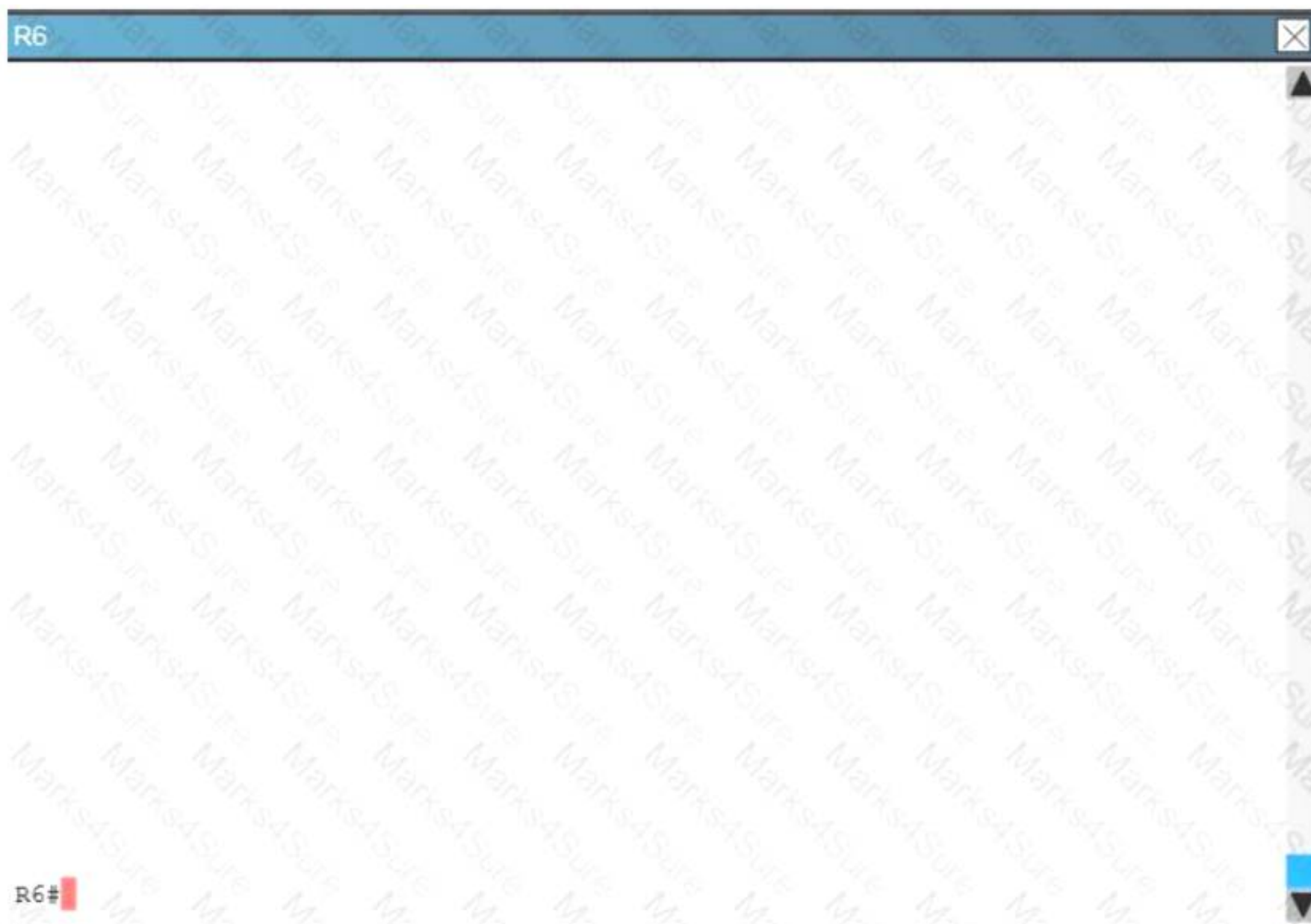
Which key chain is being used for authentication of EIGRP adjacency between R4 and R2?

A. CISCO
B. EIGRP
C. key
D. MD5

Answer: A

Explanation: R4 and R2 configs are as shown below:

```
R4                                       R2

!                                        !
no ip domain-lookup                      no aaa new-model
no ipv6 cef                              clock timezone PST -8 0
ipv6 multicast rpf use-bgp               !
!                                        ip cef
key chain CISCO                          !
 key 1                                   !
  key-string firstkey                    no ipv6 cef
!                                        ipv6 multicast rpf use-bgp
!                                        !
!                                        key chain CISCO
!                                         key 1
!                                          key-string firstkey
!                                        key chain FIRSTKEY
!                                         key 1
!                                          key-string CISCO
!                                        key chain R3
!                                         key 1
!                                          key-string R3
!                                        key 2
interface Loopback0                       key-string R1
 ip address 150.1.4.4 255.255.255.255    !
!                                        !
interface Ethernet0/0                    !
 description Link to R6                   !

 ip address 192.168.46.4 255.255.255.0   --- More (164) ---
```

Clearly we see the actual key chain is named CISCO.

NEW QUESTION 344
Which feature can automatically assign IP addresses IP addresses in a PPPoE environment?

A. DHCP
B. BOOTP
C. PPP
D. APPA

Answer: C

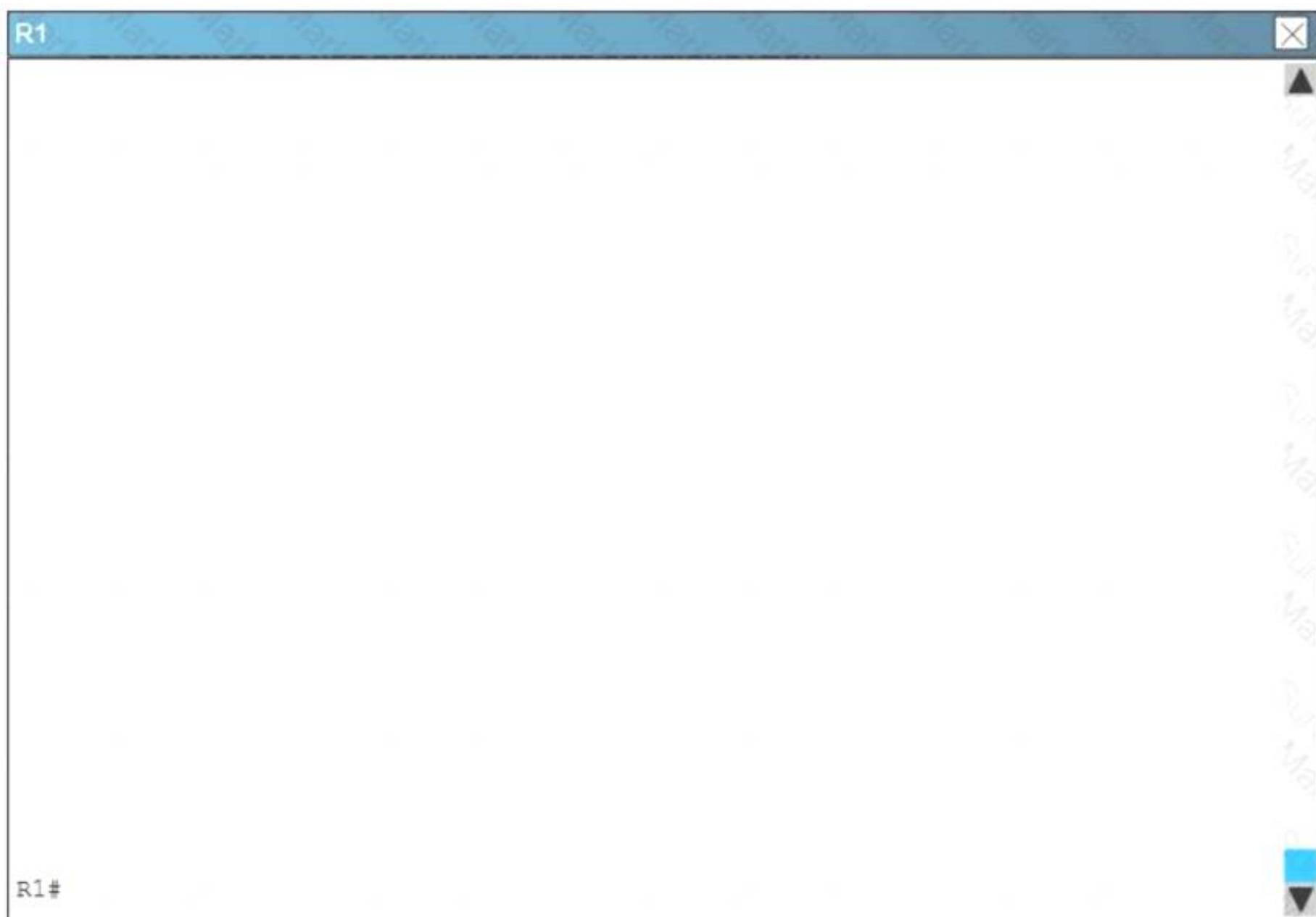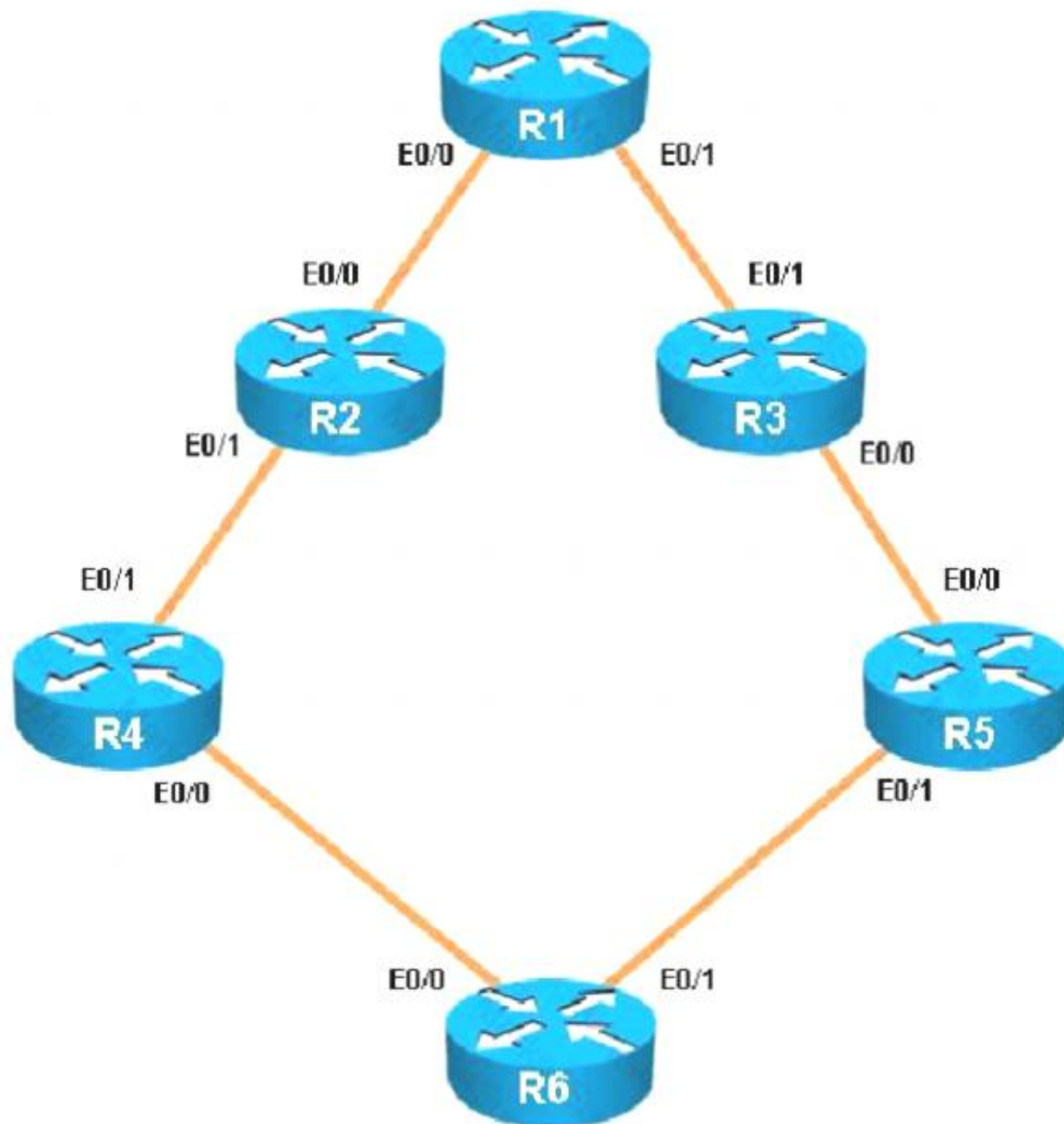**NEW QUESTION 349**
You have been asked to evaluate how EIGRP is functioning in a customer network.

R1

R1#

R2

R2#

R3

R3#

R4

R4#

R5

R5#

```
R6                                                                    ✕
                                                                      ▲



















R6#█                                                                  ▼
```
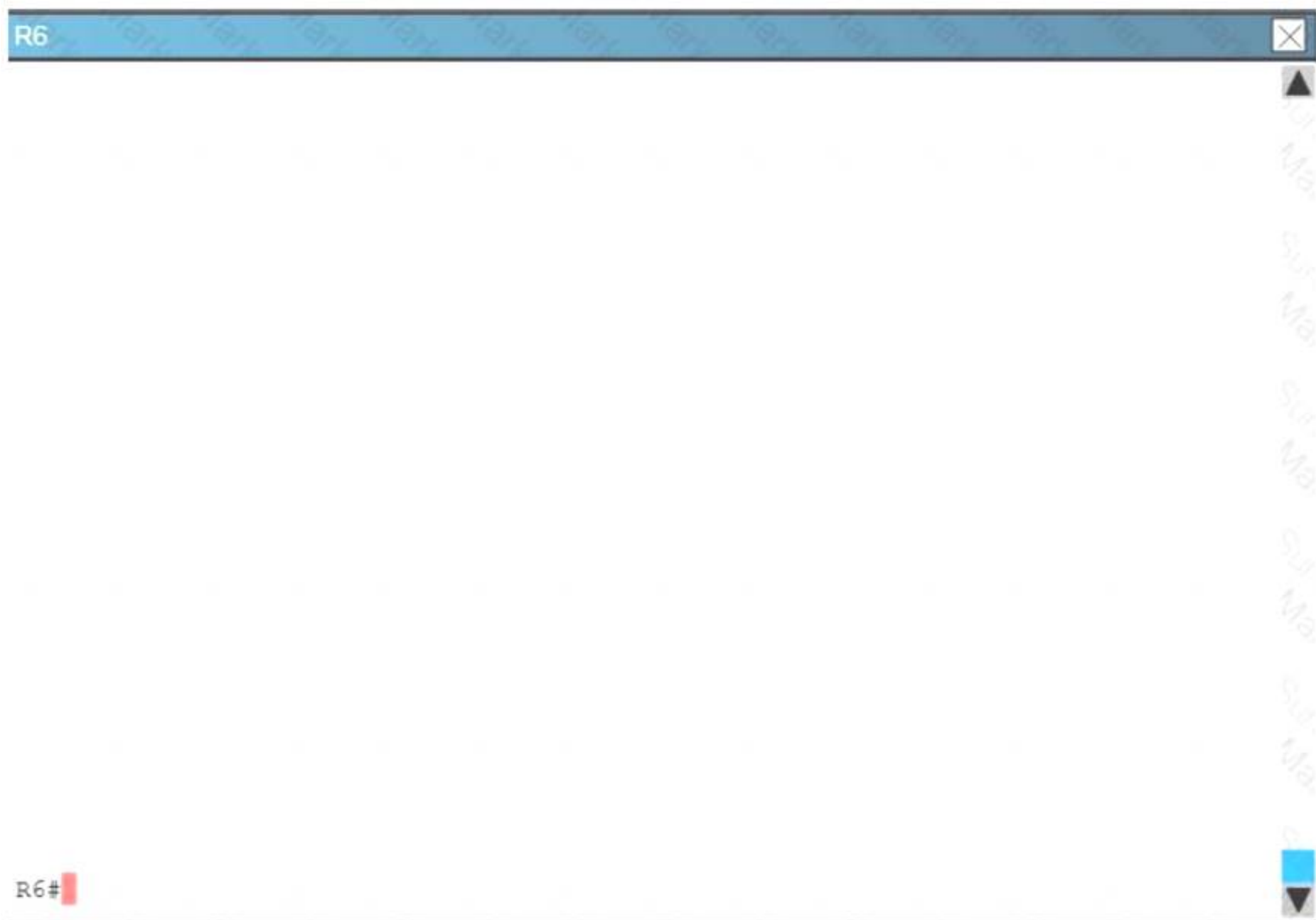
What is the advertised distance for the 192.168.46.0 network on R1?

A. 333056
B. 1938688
C. 1810944
D. 307456

Answer: A

NEW QUESTION 354
Which interfaces type does a PPPoE client use to establish a session?

A. dialer
B. virtual-template
C. physical
D. loopback

Answer: A

NEW QUESTION 357
Which condition must be met before two EVN devices can connect?

A. An EtherChannel must be configured with at least two interfaces connected between the devices.
B. A fiber connection must be established between the devices.
C. One VLAN interface must be configured between the devices.
D. A trunk interface must be configured between the devices.

Answer: D

NEW QUESTION 358
Which feature eliminates the need for Cisco Express forwarding to maintain a route cache?

A. MAC address table
B. adjacency table
C. FIB
D. RIB

Answer: C

Explanation: https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/XE3-6-0E/15- 22E/configuration/guide/xe-360-config/cef.pdf
C:\Users\wk\Desktop\mudassar\Untitled.jpg

Forwarding Information Base

The Forwarding Information Base (FIB) is a table that contains a copy of the forwarding information in the IP routing table. When routing or topology changes occur in the network, the route processor updates the IP routing table and CEF updates the FIB. Because there is a one-to-one correlation between FIB entries and routing table entries, the FIB contains all known routes and eliminates the need for route cache maintenance that is associated with switching paths, such as fast switching and optimum switching. CEF uses the FIB to make IP destination-based switching decisions and maintain next-hop address information based on the information in the IP routing table.

On the Catalyst 4500 series switches, CEF loads the FIB in to the integrated switching engine hardware to increase the performance of forwarding. The integrated switching engine has a finite number of forwarding slots for storing routing information. If this limit is exceeded, CEF is automatically disabled and all packets are forwarded in software. In this situation, you should reduce the number of routes on the switch and then reenable hardware switching with the **ip cef** command.

NEW QUESTION 363
Which two statements are examples of the difference between IPV4 and IPV6 EIGRP? (Choose two)

A. Network command is not used m IPv6
B. DUAL is used for route calculations
C. IPv6 keyword is used in many EIGRP commands
D. DUAL is not used for route calculations
E. Network command is used in IPv6

Answer: AC

NEW QUESTION 367
What is the administrative distance of an EIGRP summary route?

A. 90
B. 5
C. 1
D. 170

Answer: B

NEW QUESTION 368
What happens when two EIGRP peers have mismatched K values?

A. The two devices are unable to correctly perform equal-cost routing
B. The two devices fail to perform EIGRP graceful shutdown when one device goes down
C. The two devices fail to from an adjacency
D. The two devices are unable to correctly perform unequal-cast load balancing

Answer: C

Explanation: http://www.ciscopress.com/articles/article.asp?p=27839
https://supportforums.cisco.com/t5/lan-switching-and-routing/eigrp-k-value-mismatchissue/td-p/1008233 C:\Users\wk\Desktop\mudassar\Untitled.jpg

Re: EIGRP K -value mismatch issue

Hi,

When a routers receives a EIGRP hello packet, it will check few parameters before establishing neighborship with tht neighbor. One of the few parameter is K-value. This should match between the routers inorder to establish the neighborship.

NEW QUESTION 371
Which criterion does the BGP maximum paths feature use for load balancing?

A. MED
B. local preference
C. weight
D. router ID

Answer: C

Explanation: Also MED and local preference should considered.
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_bgp/configuration/xe-16/irgxe-16-book/ibgp-multipa https://learningnetwork.cisco.com/docs/DOC-11233
C:\Users\wk\Desktop\mudassar\Untitled.jpg

As you may know, BGP selects only one best path for each prefix it receives then installs in the IP routing table. So whenever we need load-balancing across different paths, we have to enable BGP multipath, by the "maximum-paths" command.

We can select iBGP and eBGP paths altogether as the best, that is called eiBGP multipath. It means, for example, CE1 is multihomed to PE1 and PE2 via BGP. PE1 has a best path to CE1, PE1 can still use PE2 to CE1 as a parallel path to reach CE1, so one path is eBGP (to CE1) and another path is iBGP (to PE1 to CE1) this is called eiBGP multipath.

There's a criteria and several conditions that BGP checks before selecting additional paths in parallel with the best one. The following attributes of parallel paths have to match with the best path:

- Weight
- Local Pref
- Origin
- AS-Path Length
- MED
- Neighbor AS or Sub-AS match for (eBGP multipath)
- AS-PATH match (for eiBGP multipath)
- IGP metric to BGP next hop

C:\Users\wk\Desktop\mudassar\Untitled.jpg

For multiple paths to the same destination to be considered as multipaths, the following criteria must be met:

- All attributes must be the same. The attributes include weight, local preference, autonomous system path (entire attribute and not just length), origin code, Multi Exit Discriminator (MED), and Interior Gateway Protocol (IGP) distance.

- The next hop router for each multipath must be different.

Even if the criteria are met and multiple paths are considered multipaths, the BGP speaking router will still designate one of the multipaths as the best path and advertise this best path to its neighbors.

NEW QUESTION 375
Which two debug commands can you use to view issues with CHAP and PAP authentication? (Choose two.)

A. DebugTACACS
B. Debug radius
C. Debug AAA authentication
D. Debug PPP negotiation
E. Debug PPPauthentication

Answer: DE

NEW QUESTION 377
Which location is traffic from IP SLAs?

A. core edge
B. access edge
C. WAN edge
D. Distribution edge
E. User edge

Answer: C

NEW QUESTION 378
A network engineer executes the show IP Cache flow command, Which two types of information are displayed in the report that is generated? (Choose two.)

A. flow export statistics
B. SMLS flow traffic
C. flow samples for specific protocols
D. top talkers
E. IP packet distribution

Answer: AC

NEW QUESTION 380
What are two BGP neigbourship states?(choose two)

A. Full
B. Open Sent
C. 2WAY
D. Connect
E. DROTHER
F. Stuck in active

Answer: BD

NEW QUESTION 385
What to configure on routes if TACACS+ authentication fails? (Choose two)

A. Configure local username and password
B. Include 'local' keyword in AAA config

Answer: AB

NEW QUESTION 389
Which two actions are common methods for migrating a network from one network protocol to another? (choose two)

A. Channing the relative administrative distance of the two routing protocols.
B. Channing the network Ip address and bringing up the addresses using the new routing protocol
C. removing the currency protocol and implementing the new routing protocol
D. redistributing from the current routing protocol to the new routing protocol
E. disabling IP routing globally and implement the new routing protocol

Answer: BD

NEW QUESTION 391
Which two statements about PPPOE packet types are true? (Choose two)

A. PADI is an initialization packet sent as a broadcast message
B. PADO is a unicast reply packet sent to the client.
C. PADR is a broadcast packet sent from the client to request a new server.
D. PADR is a broadcast reply packet sent to the client.
E. PADR is a unicast confirmation packet sent to the client.

Answer: AC

NEW QUESTION 396
Which feature or technology is supported with stateful NAT64?

A. FTP and ICMP on an application layer gateway
B. VFR
C. IP multicast
D. NAT44 and NAT64 on the same interface

Answer: B

NEW QUESTION 400
Which types of LSAs are present in the stub area?

A. LSA type 1 and 2

B. LSA type 1. 2. 3, 4. and 5
C. LSA type 1 2, and 3
D. LSA type 3 and 5

Answer: C

NEW QUESTION 405
What is the maximum number of hops on a router that RIPng advertises as reachable?

A. 15
B. 30
C. 99
D. 255

Answer: A

NEW QUESTION 406
Which two statements about OSPFv3 are true?(choose two)

A. The router ID is configured as an IPv6 address.
B. It uses loopback IPv6 addresses to form neighbor relationships.
C. The router ID is configured as an IPv4 address.
D. It uses LSA type 6 for intra-area prefixes.
E. It is backwards-compatible with OSPFv2 through the use of sham link.
F. It uses link-local addresses to form neighbor relationships.

Answer: CF

NEW QUESTION 408
If you convert a WAN connection with OSPF from T1 to a Frame Relay circuit, which two actions must you take to enable the connection? (Choose two)

A. Change the OSPF network type to nonbroadcast
B. Manually configure neighbors in the OSPF process
C. Manually configure the hello and dead timers
D. Change the OSPF network type to broadcast.
E. Change the OSPF network type to multipoint nonbroadcast

Answer: AB

NEW QUESTION 410
Regarding a diagram with 3 routers (H1(with IPv6 IP and Loopback 1.1.1.1) +R1 (with IP IPv6 and Loopback 2.2.2.2) +R2 (with IP IPv6 and Loopback 3.3.3.3) running with EIGRP 100 on both routers and what command you will implement so that you will see the loopback IP of R2 to be advertised at H1

A. H1(config t)#router eigrp 100 H1(config t)#no stub only
B. R2(config t)#router eigrp 100 R2(config t)#no stub receive only
C. H1(config t)#ipv6 router eigrp 100 H1(config t)#no stub only
D. R2(config t)#ipv6 router eigrp 100 R2(config t)#no stub only

Answer: A

NEW QUESTION 412
which access list used to filter upper layer protocol ?

A. extended acl
B. standart acl
C. reflexive acl
D. time based acl
E. dynamic acl

Answer: C

NEW QUESTION 415
Which three restrictions apply to OSPF stub areas? (Choose three.)

A. No virtual links are allowed.
B. The area cannot be a backbone area.
C. Redistribution is not allowed unless the packet is changed to a type 7 packet
D. The area has no more than 10 routers.
E. No autonomous system border routers are allowed.
F. Interarea routes are suppressed.

Answer: ABE

NEW QUESTION 419
A network engineer is troubleshooting connectivity issues with a directly connected RIPng neighbor. Which command should directly connected RIPng neighbor

adjacencies only?

A. router# show ipv6 rip next-hops
B. router# show ip rip neighbors
C. router# show ipv6 routers
D. router# show ipv6 rip database

Answer: A

NEW QUESTION 422
What does the following access list, which is applied on the external interface FastEthernet 1/0 of the perimeter router, accomplish?

```
router (config)#access-list 101 deny ip 10.0.0.0 0.255.255.255 any log
router (config)#access-list 101 deny ip 192.168.0.0 0.0.255.255 any log
router (config)#access-list 101 deny ip 172.16.0.0 0.15.255.255 any log
router (config)#access-list 101 permit ip any any
router (config)#interface fastEthernet 1/0
router (config-if)#ip access-group 101 in
```

A. It prevents private internal addresses to be accessed directly from outside
B. It filters incoming traffic from private address ranges 10 0 0 0-10 0 0 255,172 16.0 0-172.31.255255.192 168 0 0-192 168 255 255 and logs any intrusion attempts
C. It prevents the internal network from being used in spoofed denial of service attacks and logs any exit to the Internet
D. It filters incoming traffic from private addresses in order to prevent spoofing and logs any intrusion attempts

Answer: B

NEW QUESTION 423
Which adverse event can occur as a consequence of asymmetric routing on the network?

A. vulnerability to a man-in the - middle attack
B. inadvertent HSRP active router preemption
C. errdisabled port
D. unicast flooding

Answer: D

NEW QUESTION 425
Engineer has to enable RIP on a link. Where he will issue the command?

A. Ipv6
B. Global
C. Router sub command
D. Interface sub command

Answer: C

NEW QUESTION 430
A network engineer has configured an IOS router to synchronize its clock with a Windows server. After several minutes, the network engineer notices that the local time on the router does not match the time on the Windows server What is the reason for this?

A. Either a firewall between the two devices or an ACL on the router is blocking TCP port 958
B. Either a firewall between the two devices or an ACL on the router is blocking UDP port 958
C. Either a firewall between the two devices or an ACL on the router is blocking UDP port 123
D. Either a firewall between the two devices or an ACL on the router is blocking TCP port 123

Answer: C

NEW QUESTION 432
Drag and drop the statement about device security from the left on the correct features on the right.

It designates the permitted management interfaces on the device.	COPP
It is enabled only when an interface is configured.	
It protects the device against DoS attacks.	
It requires only a single command to configure.	MPP
It supports packet forwarding by reducing the load on the device.	
It uses QoS to limit the load on the device.	

Answer:

Explanation:

It designates the permitted management interfaces on the device.	COPP
It is enabled only when an interface is configured.	
It protects the device against DoS attacks.	
It requires only a single command to configure.	MPP
It supports packet forwarding by reducing the load on the device.	
It uses QoS to limit the load on the device.	

NEW QUESTION 435
Which two LSA types were introduced to support OSPF for IPV6?

A. type 9
B. type 7
C. type 8
D. type 10
E. type 5

Answer: AC

NEW QUESTION 438
Which two statements about the OSPF down bit are true? (Choose two)

A. It is set when OSPF routers are redistributed into BGP
B. It is set only for LSA types 1,2 and 4.
C. It set when an OSFP virtual link in created.

D. It is set only for LSA types 3, 5, and 7
E. It is set when MP-BGP routers are redistributed into OSPF

Answer: CD

NEW QUESTION 442
Which protocol does VRF-Lite support?

A. IS-IS
B. ODR
C. EIGRP
D. IGRP

Answer: C

NEW QUESTION 445
Which two statements about the enable secret and enable password commands are true?(Choose two)

A. I both commands are missing from the global configuration, vty lines use the console password
B. The enable secret command overrides enable password
C. The enable password command has a stronger encryption algorithm than enable secret
D. The enable secret command is backwards-compatible with more versions of IOS
E. The enable secret and enable password commands must be used together
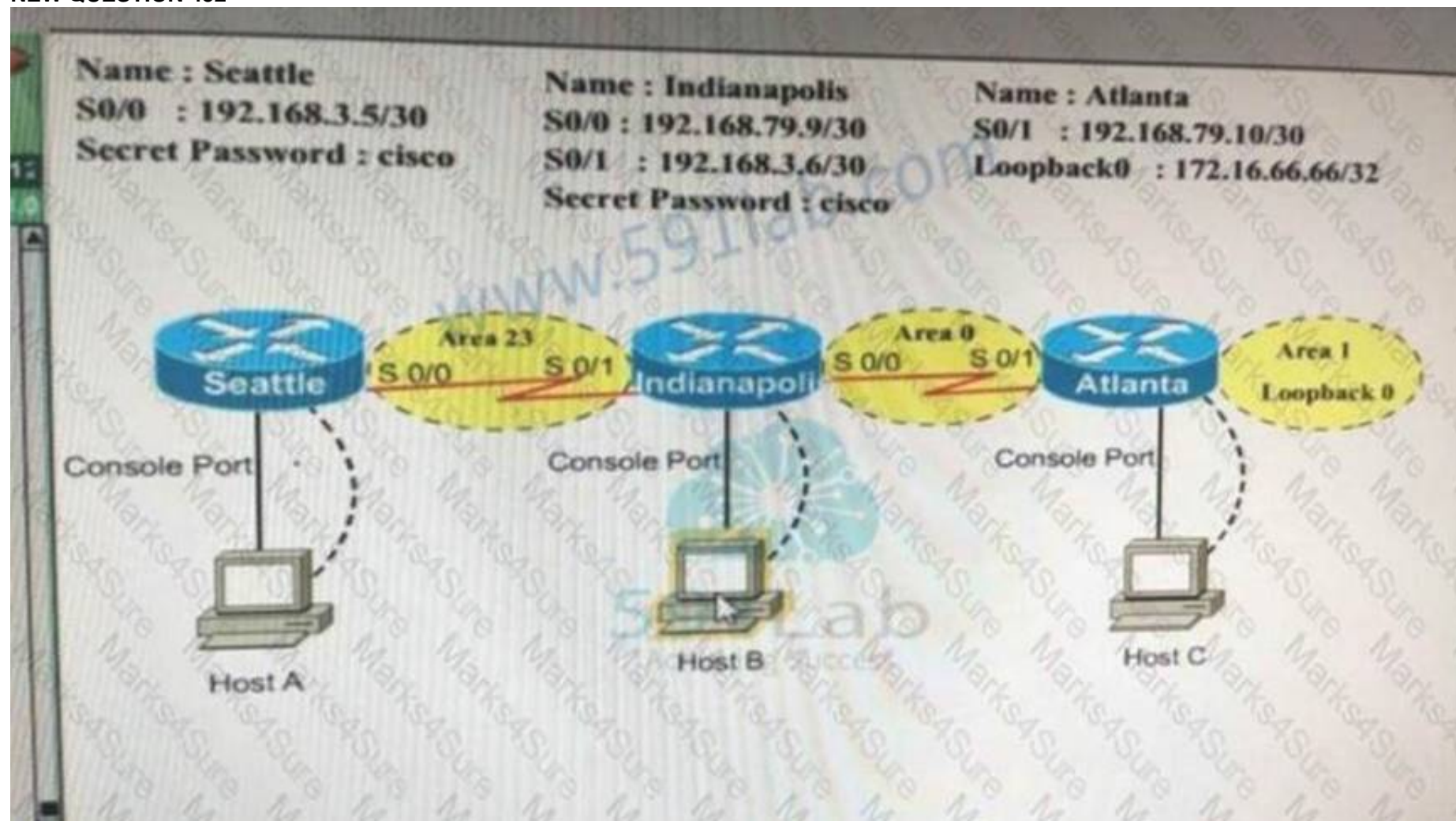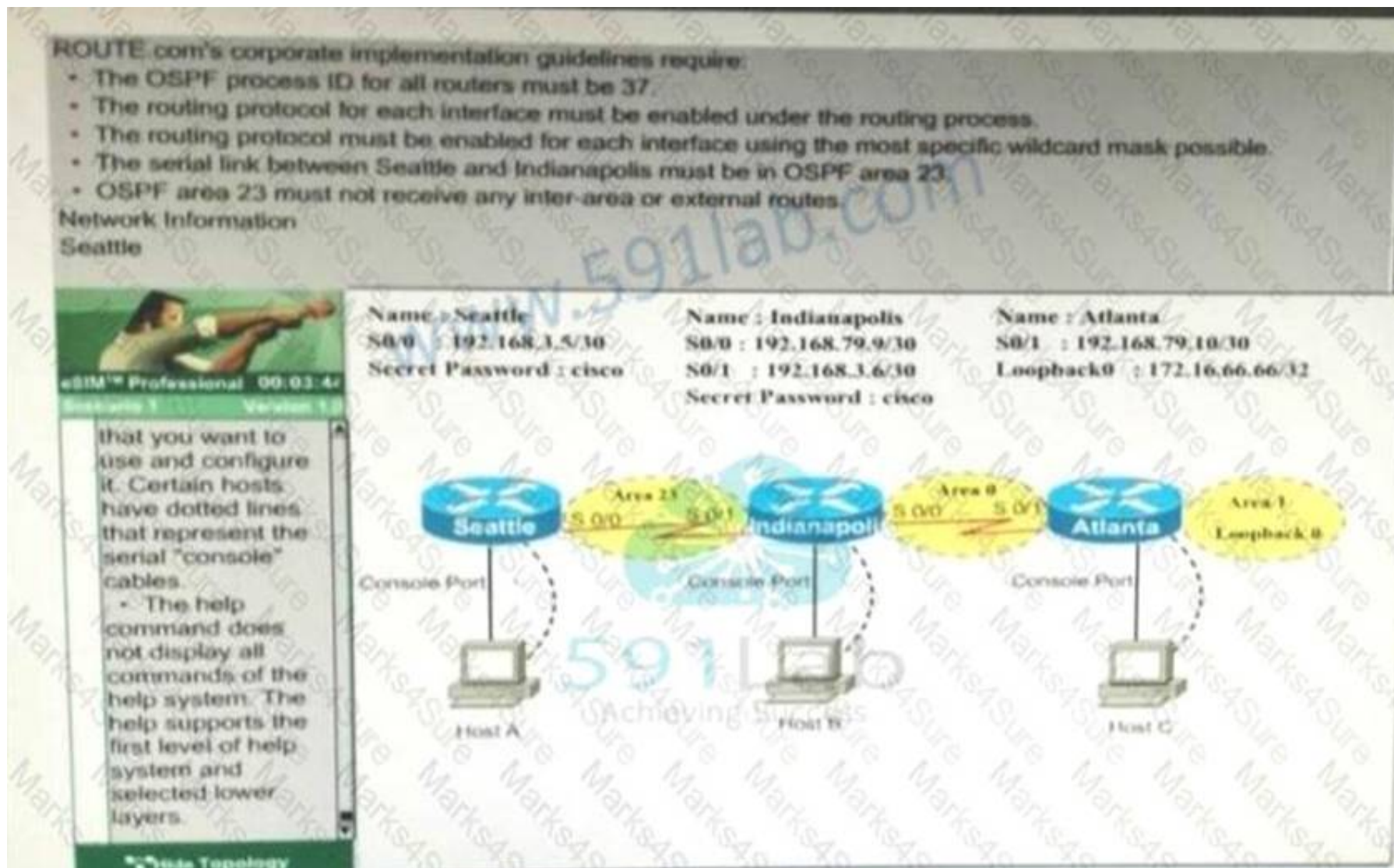
Answer: AB

NEW QUESTION 450
Which password takes precedence if you configure multiple passwords for Telnet connections to a Cisco IOS device?

A. console line password
B. enable secret password
C. enable password
D. aux line
E. password

Answer: B

NEW QUESTION 452

Answer:

Explanation: Always remember the Process id and area , in this question process id is 37a nd OSPF area is 23 Process id 37 area 23 Indianapoll
at first go to HOST A and write this configuration Seattle(config)#router ospf 37
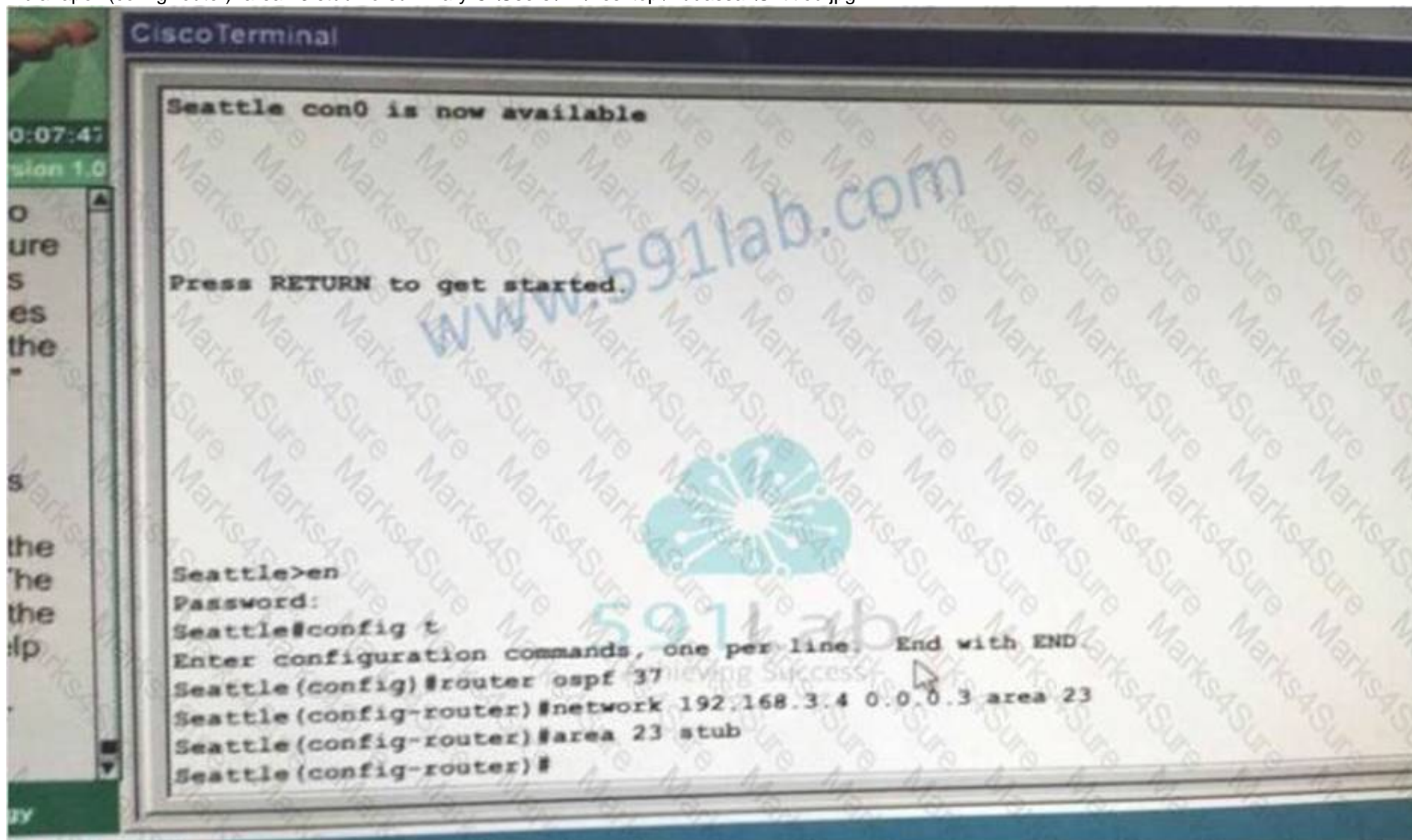Seattle (config-router)#network 192.168.3.4 0.0.0.3 area 23 Seattle (config-router)#area 23 stub
For Host B
Indianapoll #configure terminal Indianapoll (config)#router ospf 37
Indianapoll (config-router)#network 192.168.3.4 0.0.0.3 area 23
Indianapoll (config-router)#area 23 stub no-summary C:\Users\wk\Desktop\mudassar\Untitled.jpg

Show ip route in host A
To verify the lab O* this one should be there. C:\Users\wk\Desktop\mudassar\Untitled.jpg

```
CiscoTerminal

Seattle(config)#router ospf 37
Seattle(config-router)#network 192.168.3.4 0.0.0.3 area 23
Seattle(config-router)#area 23 stub
Seattle(config-router)#end
00:00:09:45: %SYS-5-CONFIG_I: Configured from console by console
Seattle#copy run start
Destination filename [startup-config]?
Building configuration...

[OK]
Seattle#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, * - candidate default
       U - per-user static route, o - ODR

Gateway of last resort is 192.168.3.6 to network 0.0.0.0

     192.168.3.0/30  is subnetted, 1 subnets
C       192.168.3.4  is directly connected, Serial0/0
O* IA   0.0.0.0/0 [110/563] via 192.168.3.6, 00:00:17, Serial0/0
Seattle#
```

NEW QUESTION 456
Which two causes of latency are true?(choose two)

A. High bandwidth on a link
B. Split horizon
C. Propagation delay
D. Serialization delay
E. Under-utilization of a link

Answer: CE

NEW QUESTION 461
Refer to the exhibit.

center#**show ip cef 45.0.0.0**

45.0.0.0/8, version 184, 0 packets, 0 bytes

via 1.1.1.1, Tunnel0, 0 dependencies

next hop 1.1.1.1, Tunnel0

valid punt adjacency

CEF Packets passes on to next switching layer

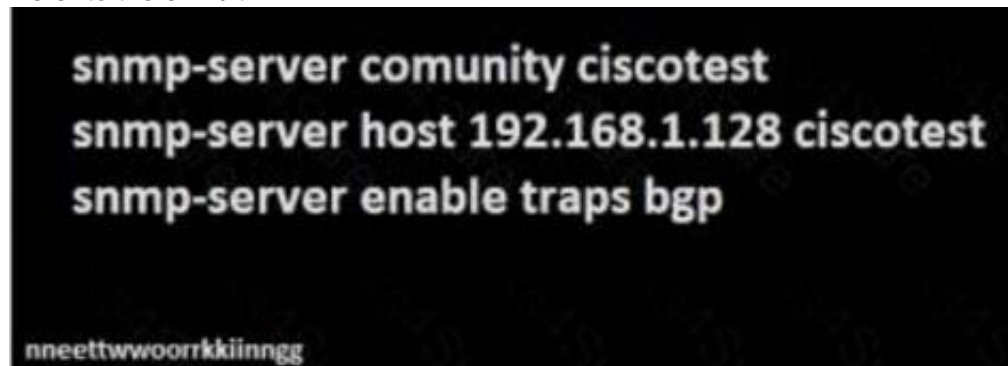| Slot	No_adj	No_encap	Unsupported	Redirect	Receive	Bad_ttl	Options
RP	0	0	0	0	5700	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0

What is indicated by the show ip cef command for an address?

A. CEF cannot switch packet for this route and drops it

B. CEF is unable to get routing information for this route
C. CEF cannot switch packet for this route and passes it to the next best switching method
D. A valid entry and is punted to hardware-based forwarding

Answer: C

NEW QUESTION 465
Refer to the exhibit.

```
snmp-server comunity ciscotest
snmp-server host 192.168.1.128 ciscotest
snmp-server enable traps bgp

nneettwwoorrkkiinngg
```

Which effect of this configuration is true?

A. The device sends SNMP traps related to BGP operations to host 192.168 1.128
B. It configures an ACL to protect SNMP managers from receiving BGP traps.
C. it configures the device to use string ciscotest for read and write access to any SNMP manager on the network.
D. it configures the device to communicate with other devices in the ciscotest community using SNMPv3

Answer: A

NEW QUESTION 469
A customer requests policy-based routing Packets arriving from source 209 165 200 225 should be sent to the next hop at 209 165 200 227 with the precedence bit set to priority. Packets arriving from source 209 165 200 226 should be sent to the next hop at 209 165 200 228 with the precedence bit set to critical Which configuration completes these requirements'?
A customer requests policy-based routing Packets arriving from source 209 165 200 225 should be sent to the next hop at 209 165 200 227 with the precedence bit set to priority Packets arriving from source 209.165.200 226 should be sent to the next hop at 209 165 200 228 with the precedence bit set to critical. Which configuration completes these requirements?
A)

```
access-list 1 permit 209.165.200.225
access-list 2 permit 209.165.200.226
!
route-map Texas permit 10
match ip address 1
set ip precedence critical
set ip next-hop 209.165.200.227
!
route-map Texas permit 20
match ip address 2
set ip precedence priority
set ip next-hop 209.165.200.228
!
interface ethernet 1
ip policy route-map Texas
```

B)

```
access-list 1 permit 209.165.200.227
access-list 2 permit 209.165.200.228
!
route-map Texas permit 10
match ip address 1
set ip precedence priority
set ip next-hop 209.165.200.225
!
route-map Texas permit 20
match ip address 2
set ip precedence critical
set ip next-hop 209.165.200.226
!
interface ethernet 1
ip policy route-map Texas
```

C)
```
access-list 1 permit 209.165.200.225
access-list 2 permit 209.165.200.226
!
route-map Texas permit 10
match ip address 1
set ip precedence priority
set ip next-hop 209.165.200.227
!
route-map Texas permit 20
match ip address 2
set ip precedence critical
set ip next-hop 209.165.200.228
!
interface ethernet 1
ip policy route-map Texas
```

D)
```
access-list 1 permit 209.165.200.228
access-list 2 permit 209.165.200.227
!
route-map Texas permit 10
match ip address 1
set ip precedence priority
set ip next-hop 209.165.200.226
!
route-map Texas permit 20
match ip address 2
set ip precedence critical
set ip next-hop 209.165.200.225
!
interface ethernet 1
ip policy route-map Texas
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

NEW QUESTION 470
A network engineer is configuring two dedicated internet connection within the internet nodule.
One connection is primary connection to all wired business communication. While the other is the primary connection for all customer wireless traffic. If one of the links goes down, the affected traffic needs to be redirected to the redundant link. Which current technology should be deployed to monitor the scenario?

A. PBR
B. IP QoS
C. MMC
D. IP SLAs
E. IP SAA

Answer: A

NEW QUESTION 475
Which feature can be used to reduce the number of ICMP unreachable messages egressing a router?

A. ICMP rate-limiting
B. asymmetric routing
C. URPF
D. ip unreachables command

Answer: A

NEW QUESTION 480
Which two options are benefits of BGP peer groups?(Choose two)

A. They can optimize backdoor routes
B. They support groups of paths
C. A configuration change can be applied simultaneously to all peers in the peer group
D. Each neighbor in a peer group can have different inbound BGP policies
E. They can be updated via multicast
F. They use soft updates to minimize bandwidth consumption

Answer: CD

NEW QUESTION 483
What is the hop count is advertised for an unreachable network by a RIP router that uses poison reverse?

A. 16
B. 255
C. 15

Answer: A

NEW QUESTION 487
Which two commands must be configured on a DMVPN hub to enable phase 3? (Choose two)

A. ip nhrp redirect
B. ip nhrp interest
C. ip nhrp shortcut
D. Ip nhrp map
E. ip redirects

Answer: AD

NEW QUESTION 491
Which two statements about Frame Relay point-to-point connections are true?(Choose two)

A. They use two DLCIs to communicate with multiple endpoints over the Frame Relay cloud
B. The device can establish a point-to-point connection to the cloud without a DLCI
C. Changing a point-to-point subinterface to a different type requires the device to be reloaded.
D. They can operate normally without a DLCI map
E. Each physical interface that extends to the Frame Relay cloud can support a single SVC.

Answer: AC

NEW QUESTION 493
What other action does an IPv6 filter do when it drops a packet?

A. generates an ICMP unreachable message
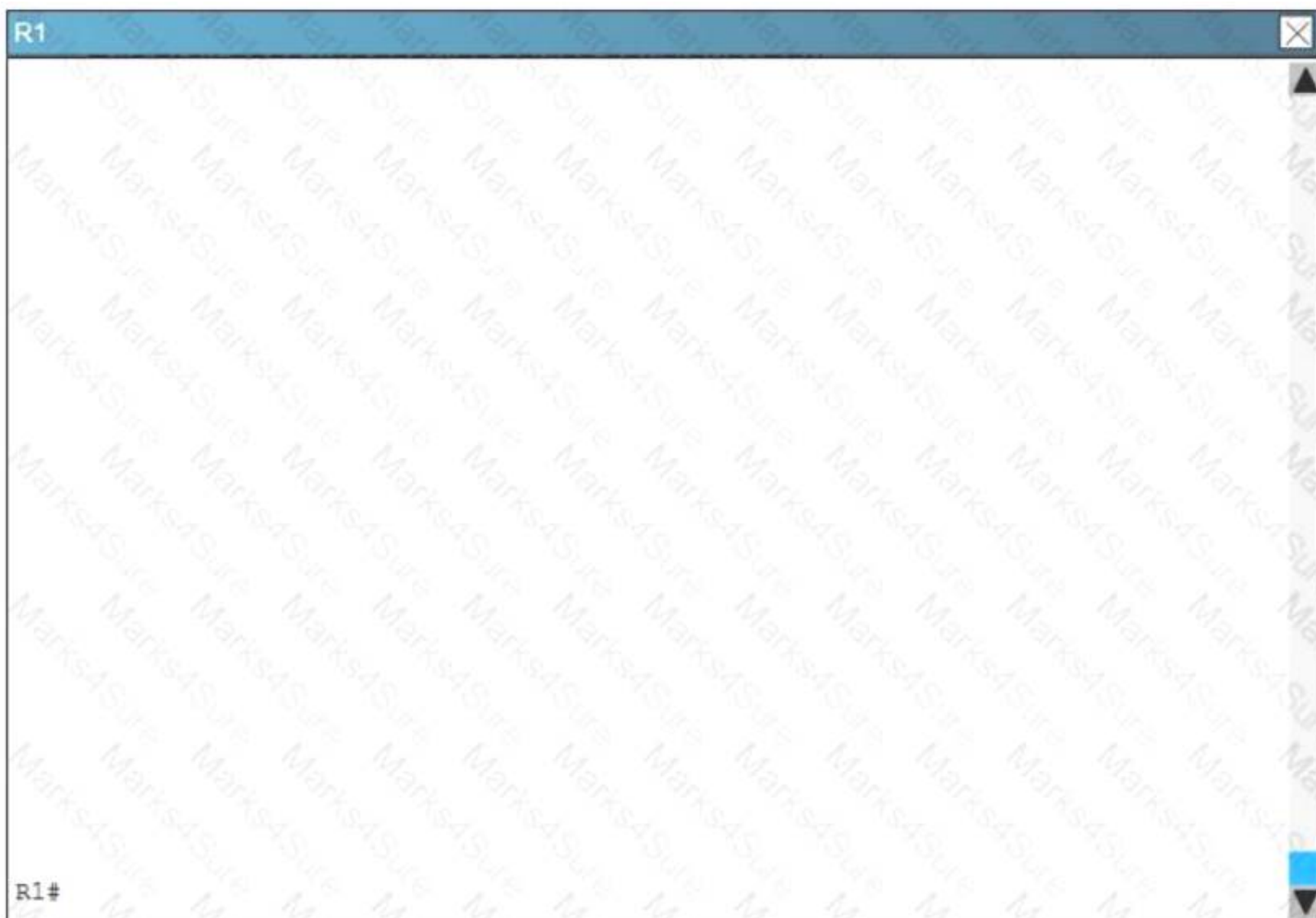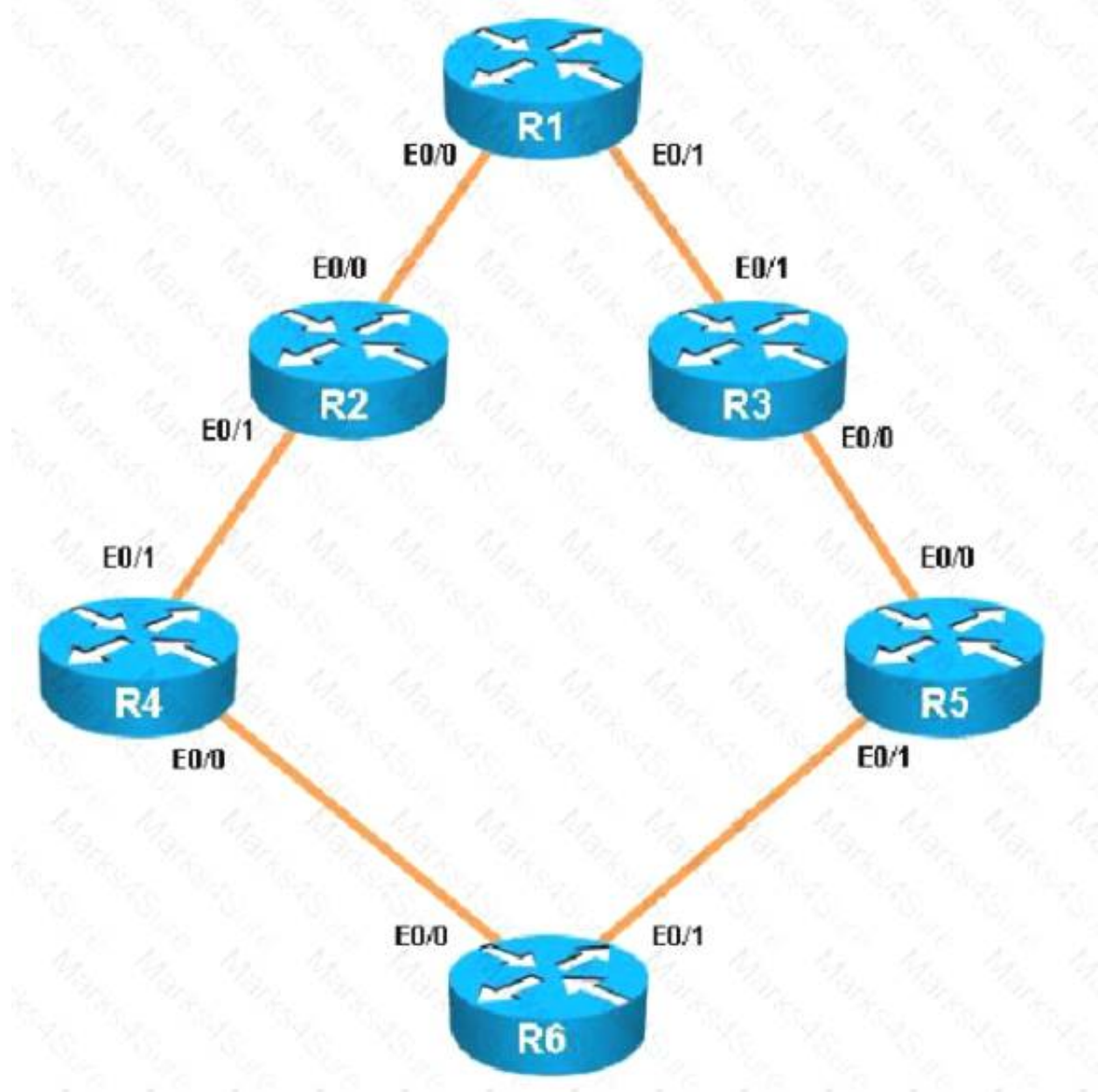B. Other option

Answer: A

NEW QUESTION 497

Which allowing website access between certain times?

A. Filters using Time-Based ACLs
B. x
C. x
D. x

Answer: A

NEW QUESTION 500
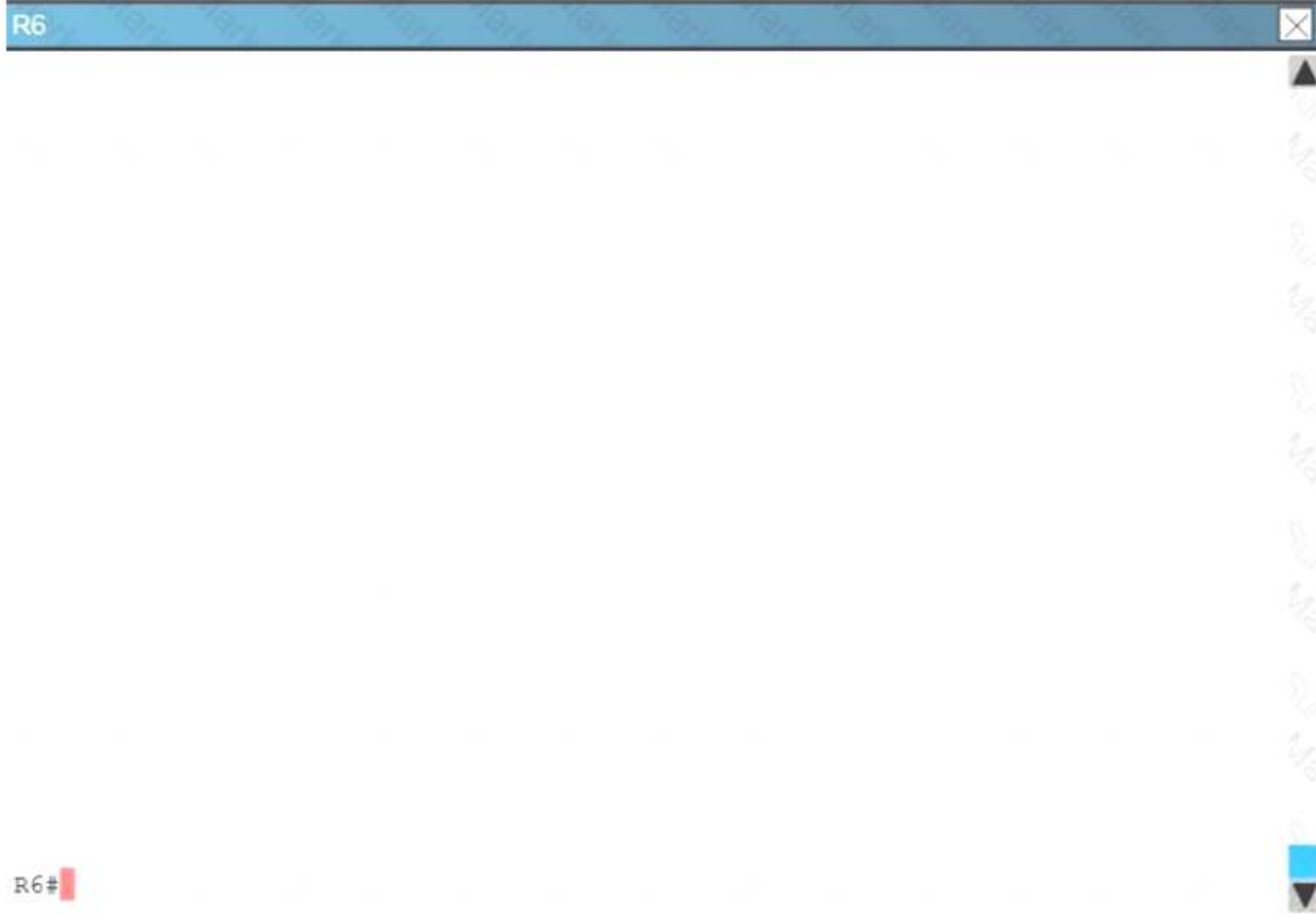You have been asked to evaluate how EIGRP is functioning in a customer network.

R2

R2#

R3

R3#

R4

```
R4#
```

R5

```
R5#
```

```
R6                                                              ☒
                                                                ▲




















R6#▮                                                            ▼
```

What percent of R1's interfaces bandwidth is EIGRP allowed to use?

A. 10
B. 20
C. 30
D. 40

Answer: B

NEW QUESTION 501
Which security feature can protect DMVPN tunnels?

A. IPsec
B. TACACS+
C. RTBH
D. RADIUS

Answer: A

NEW QUESTION 502
Which LSA type in OSPFv3 is used for link-local updates?

A. Type 5
B. Type 8
C. Type 4
D. Type 9

Answer: B

NEW QUESTION 507
Which feature filters information at the interface level?
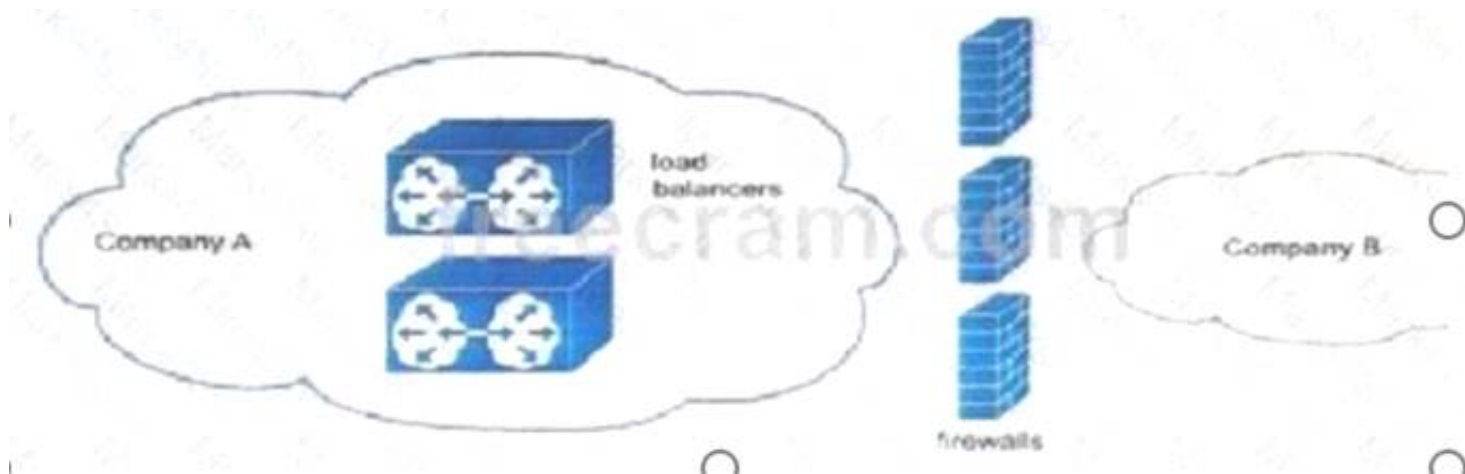
A. prefix-list
B. syslog
C. conditional debugging
D. local logging

Answer: D

NEW QUESTION 512
Refer to the exhibit.
Which networking challenge is the most important issue to address to enable optimal communication between the networks at Company A and Company B?

A. IPv4 MTU
B. IPv4 fragmentation
C. UDP latency
D. unicast flooding
E. asymmetric routing

Answer: E

NEW QUESTION 514
Which action is the most efficient way to handle route feedback when connecting a RIPv2 network to OSPF?

A. Implement distribute lists
B. Implement route tags
C. Implement route maps with access lists
D. Implement IP prefix lists.

Answer: C

NEW QUESTION 515
After reviewing to EVN configuration, a network administrator notices that a predefined BVN, which is known as" vnet global" was configured. What is the purpose of this EVM?

A. It defines the routing scope fr each particular EVN edge interface.
B. It aggregates and canes all dop1q tagged traffic.
C. It refer to the global routing context and corresponds to the default RIB.
D. It safeguard the virtual network that is preconfigured to avoid mismatched routing instances.

Answer: C

NEW QUESTION 518
A router receives a routing advertisement for 10.1.1.0/24 from an EIGRP peer and from an OSPF peer, Which route does the router install in the routing table, and for which reason?

A. the OSPF route, because the administrative distance is lower
B. the EIGRP route, because the metric is lower
C. the OSPF route, because the metric is lower
D. the EIGRP route, because the administrative distance is lower

Answer: D

NEW QUESTION 523
You have a router has some interface configured with 10Gb interface and gigabit interface. Which command you use to optimize higher BW

A. (config)#router ospf 1(config-router)auto-cost reference-bandwidth 10000
B. (config)#router ospf 1(config-router)auto-cost reference-bandwidth 1000
C. (config)#int f0/0(config-int)auto-cost reference-bandwidth 1000
D. (config)#int f0/0(config-int)auto-cost reference-bandwidth 10000

Answer: A

NEW QUESTION 528
Which two statements about NAT in a DMVPN environment are true?(choose two)

A. A hub router can be behind a dynamic NAT on a device.
B. Spoke routers can reside only on the public side of a NAT device.
C. Two spokes can establish session among themselves using PAT behind different devices.
D. A spoke router can be represented by a static NAT on a device.
E. A hub router can use static NAT for its public IP address.

Answer: DE

NEW QUESTION 530
Which statement about Stateless and Stateful IPv6 autoconfiguration are true?

A. Both Stateless and Stateful autoconfiguration require additional setup
B. Stateless autoconfiguration requires no additional setup, whereas Stateful autoconfiguration requires additional setup
C. Stateless autoconfiguration requires additional setup, whereas Stateful autoconfiguration requires no additional setup
D. Both Stateless and Stateful autoconfiguration require no additional setup

Answer: B

NEW QUESTION 535
You want to configure a device to select an OSPF-learned route as the preferred path overan EBGP-learned route Which action must you take?

A. Increase the OSPF cost
B. Decrease the OSPF cost
C. Increase the oSPF administrative distance
D. Decrease the OsPF administrative distance

Answer: D

NEW QUESTION 537
Which option is an invalid redistribute command option for redistributing routes from EIGRPintoOSPF?

A. route map
B. tag
C. access list
D. metric

Answer: C

NEW QUESTION 538
A network engineer executes the command show ip eigrp vrf purple topology Which type of information is displayed as a result?

A. route successors for a specific routing table
B. active neighbors for a global routing table
C. routes for a global routing table
D. updates that were sent for a specific routing table

Answer: D

NEW QUESTION 540
Which two commands must be used to troubleshoot high memory usage for a process?

A. router#show memory allocating-process table
B. router#show memory processor statistics
C. router#show memory events
D. router#show memory summary
E. routertfshow memory dead

Answer: AD

NEW QUESTION 541
What is the advertised distance for the 192.168.46.0 network on R1?

A. 333056
B. 1938688
C. 1810944
D. 307456

Answer: C

NEW QUESTION 546
Which command will display all the EIGRP feasible successor routes known to a router?

A. show ip routes
B. show ip eigrp summary
C. show ip eigrp topology
D. show ip eigrp adjacencies

Answer: C

NEW QUESTION 547
You are configuring a Microsoft client to call a PPP server using CHAP. Only the client will be authenticated. But the clients password has expired and must be changed. Which ppp server configuration allows the call be completed?

A. ppp authentication ma-chap-v2
B. ppp authentication ms-cahp-v2 callin
C. ppp authentication chap
D. ppp authentication callin
E. ppp authentication ms-chap callin

Answer: B

NEW QUESTION 550
Which two statements about DMVPN are true?

A. Multicast traffic is not supported
B. It requires full-mesh connectivity on the network
C. IPsec encryption is not supported with statical addressed spokes
D. It uses NHRP to create a mapping database of spoke addresses
E. It supports dynamic addresses for spokes in a hub-and-spoke VPN topology

Answer: DE

NEW QUESTION 555
Refer to the exhibit.


```
R1
interface Loopback0
        ip address 172.16.1.1 255.255.255.255
inteface FastEthernet0/0
        ip address 192.168.10.33 255.255.255.224
router eigrp 100
        eigrp router-id 172.16.1.1
        no auto-summary
        network 192.168.10.0
        network 172.16.0.0

R2
interface Loopback0
        ip address 172.16.2.2 255.255.255.255
interface FastEthernet0/0
        ip address 192.168.10.17 255.255.255.240
router eigrp 100
        eigrp router-id 172.16.2.2
        network 192.168.10.0
        network 172.16.0.0
```

R1 and R2 are unable to establish an EIGRP adjacency. Which action corrects the problem?

A. Change the EIGRP router-id value on one of the routers so that the values on the two routers are different.
B. Add the no auto-summary command to the R2 configuration so that it matches the RI configuration.
C. Change the autonomous system number on one of the routers so that each router has different values.
D. Chang the IP address and subnet mask on R2 so that it is on the same subnet as R1.

Answer: D

NEW QUESTION 556
Which two statements about NetFlow templates are true? (Choose two)

A. Only NetPlow version 5 is template-based.
B. Templates can increase bandwidth usage
C. NetFlow version 5 and version 9 are template-based
D. Only NetFlow version 9 is template-based
E. They can increase overall performance
F. They can reduce bandwidth usage

Answer: BD

NEW QUESTION 558
Which command is implemented to display log messages with a timestamp that includes the length of time since the device was last rebooted?

A. service timestamps log datetime msec
B. logging facility 20
C. service timestamps debugging localtim
D. logging monitor 7
E. service timestamps log uptime

Answer: E

NEW QUESTION 563
Which two statements about NTP operation are true? (Choose two.)

A. By default, NTP communications use UDP port 123.
B. If multiple NTP servers are configured, the one with the lowest stratum is preferred.
C. "Stratum" refers to the number of hops between the NTP client and the NTP server.
D. Locally configured time overrides time received from an NTP server.
E. If multiple NTP servers are configured, the one with the highest stratum is preferred.

Answer: AB

NEW QUESTION 566
How can you minimize unicast flooding in a network?

A. Configure HSRP on two routers, with one subnet preferred on the first router and different subnet preferred on the second router.
B. Set the router's ARP timeout value to be the same as the timeout value for Layer forwarding table entries.
C. Set the router's ARP timeout value to greater than the timeout value for Layer 2 forwarding table entries.
D. Set the router's ARP timeout value to less than the timeout value for Layer 2 forwarding table entries.

Answer: B

NEW QUESTION 569
Which command is used to check IP SLA when an interface is suspected to receive lots of traffic with options?

A. show track
B. show threshold
C. show timer
D. show delay

Answer: A

NEW QUESTION 570
Drag and Drop the AAA features from the left onto the correct description on the right Select and Place:

Answer:

Explanation:

NEW QUESTION 573
What attribute is used to influence traffic from AS200 and AS300 so that it uses link1 to reach AS100.

A. MED
B. AS_path
C. weight
D. local preference

Answer: A

NEW QUESTION 578
Which issue is important to address when integrating two networks with different routing protocols?

A. preventing UDP starvation
B. handing IPv4 fragmentation
C. controlling unicast flooding
D. mitigating UDP latency
E. preventing asymmetric routing

Answer: E

NEW QUESTION 580
Company is deploying a multicast application that must be accessible between sites, but must not be accessible outside of the organization Based on

A. FF00:/16
B. FFOE:/16
C. FF02:/16
D. FF08:/16

Answer: C

NEW QUESTION 581
Which SNMP security level is available across all versions of the protocol?

A. AuthPriv
B. NoAuthPriv
C. AuthNoPriv
D. NoAuthNoPriv

Answer: A

NEW QUESTION 585
......

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