

NOKIA



Nokia Border Gateway Protocol for Internet Routing



EXAMKILLER

Help Pass Your Exam At First Try

Total Question: 152 QAs

Question No : 1

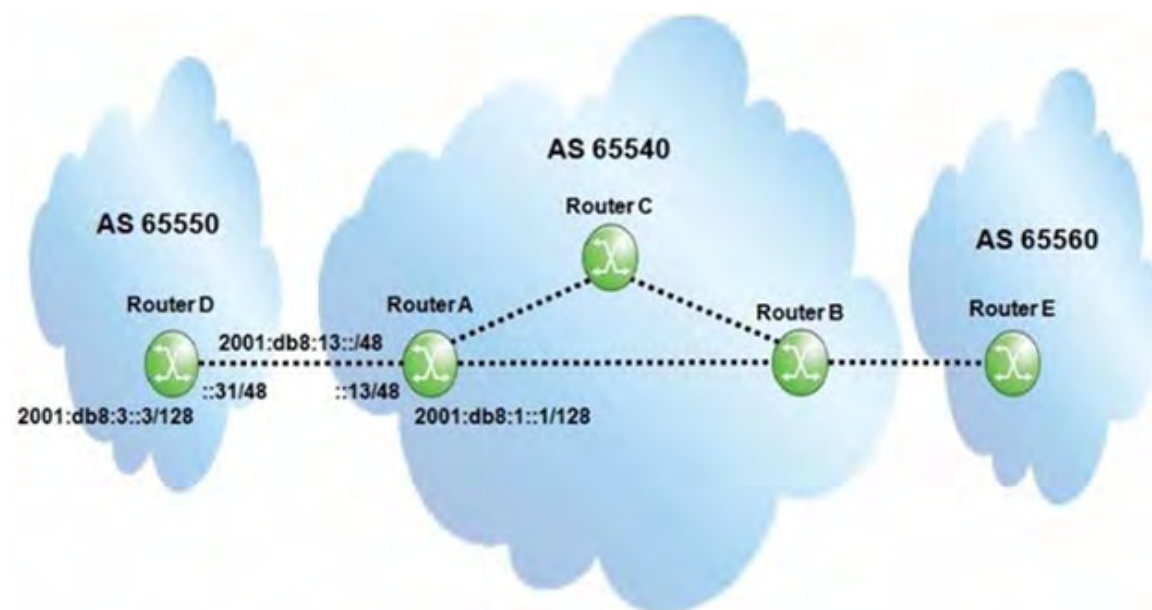
What is the function of the Cluster_List attribute?

- A. It is used for loop detection within the same cluster.
- B. It is used for loop detection between clusters.
- C. It is used for loop detection in a confederation.
- D. It is used to identify the route reflectors within an AS.

Answer: B

Question No : 2

Click the exhibit.



Assume all router-IDs are properly configured. Which of the following configurations is required on the Alcatel-Lucent 7750 SR router A to establish an IPv6 BGP session to router D?

- ☐ A.

```
group "IPv6_eBGP"
family ipv6
type external
peer-as 65550
neighbor 2001:DB8:3::3
exit
exit
```
- ☐ B.

```
group "IPv6_eBGP"
type external
peer-as 65550
neighbor 2001:DB8:3::3
exit
exit
```
- ☐ C.

```
group "IPv6_eBGP"
family ipv6
peer-as 65550
neighbor 2001:DB8:13::31
exit
exit
```
- ☐ D.

```
group "IPv6_eBGP"
type external
peer-as 65550
neighbor 2001:DB8:13::31
exit
exit
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: C

Question No : 3

Consider two Alcatel-Lucent 7750 SRs in AS 65540. Router R1 has system address 10.10.10.1, and router R2 has system address 10.10.10.2. Which of the following configurations on router R2 can establish a BGP session with router R1?

- A. R2>config>router>bgp# info
- ```

group "iBGP"
family ipv4
peer-as 65540
neighbor 10.10.10.1
peer-as 65550
exit
exit

```
- B. R2>config>router>bgp# info
- ```

group "iBGP"
family ipv6
peer-as 65540
neighbor 10.10.10.1
family ipv4
exit
exit

```
- C. R2>config>router>bgp# info
- ```

group "iBGP"
family ipv4
peer-as 65540
neighbor 10.10.10.1
family ipv4
local-address 10.10.10.1
exit
exit

```
- D. R2>config>router>bgp# info
- ```

group "iBGP"
family ipv4
local-as 65540
local-address 10.10.10.2
neighbor 10.10.10.1
exit
exit

```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: B

Question No : 4

What is the result of configuring the following policy statement as a BGP import policy on the Alcatel-Lucent 7750 SR?

```
policy-statement "Policy-1"  
  entry 10  
    from  
      protocol bgp  
      prefix-list "List-1" "List-2"  
    exit  
    action reject  
  exit  
exit  
default-action accept
```

- A. All BGP routes are accepted.
- B. All routes matching prefix lists "List-1" and "List-2" are rejected.
- C. BGP routes matching prefix lists "List-1" or "List-2" are rejected.
- D. BGP routes matching prefix lists "List-1" and "List-2" are rejected.

Answer: C

Question No : 5

When implementing a BGP policy on an Alcatel-Lucent 7750 SR, which of the following types of address space would a typical address plan need to cover?

- A. RIR assigned CIDR space.
- B. External client address space.
- C. Loopback or link addresses.
- D. External link addresses.
- E. All of the above.

Answer: E

Question No : 6

What is the default Alcatel-Lucent 7750 SR TTL of a BGP advertisement between confederation members?

- A. 1
- B. 32

C. 64

D. 255

Answer: A

Question No : 7

Click the exhibit.



Router R1 is a route reflector with clients R2, R5 and R6. Prefixes advertised by router R5 have a local preference of 200. Router R3 advertises the prefix 192.168.1.0/27 to routers R5 and R6.

Assuming that none of the routers in AS 65540 is configured with "advertise-external", what is the expected output of "show router bgp routes" on router R5?

A.	Flag	Network	LocalPref		MED
			Path-Id	VPNILabel	
		NextHop As-Path			
<hr/>					
	u*>i	192.168.1.0/27 10.3.5.3 65541	200 None	None -	
B.	Flag	Network	LocalPref		MED
			Path-Id	VPNILabel	
		NextHop As-Path			
<hr/>					
	u*>i	192.168.1.0/27 10.3.5.3 65541	None None	None -	
	i	192.168.1.0/27 10.10.10.5 65541	200 None	None -	
	i	192.168.1.0/27 10.10.10.6 65541	100 None	None -	
C.	Flag	Network	LocalPref		MED
			Path-Id	VPNILabel	
		NextHop As-Path			
<hr/>					
	u*>i	192.168.1.0/27 10.3.5.3 65541	None None	None -	
	i	192.168.1.0/27 10.10.10.5 65541	200 None	None -	
D.	Flag	Network	LocalPref		MED
			Path-Id	VPNILabel	
		NextHop As-Path			
<hr/>					
	u*>i	192.168.1.0/27 10.10.10.5 65541	200 None	None -	
	i	192.168.1.0/27 10.10.10.6 65541	100 None	None -	

A. Option A

B. Option B

C. Option C

D. Option D

Answer: C

Question No : 8

An Alcatel-Lucent 7750 SR receives a route from an iBGP peer with a MED value of 500. What MED value is sent to eBGP peers?

A. 100

B. The IGP cost

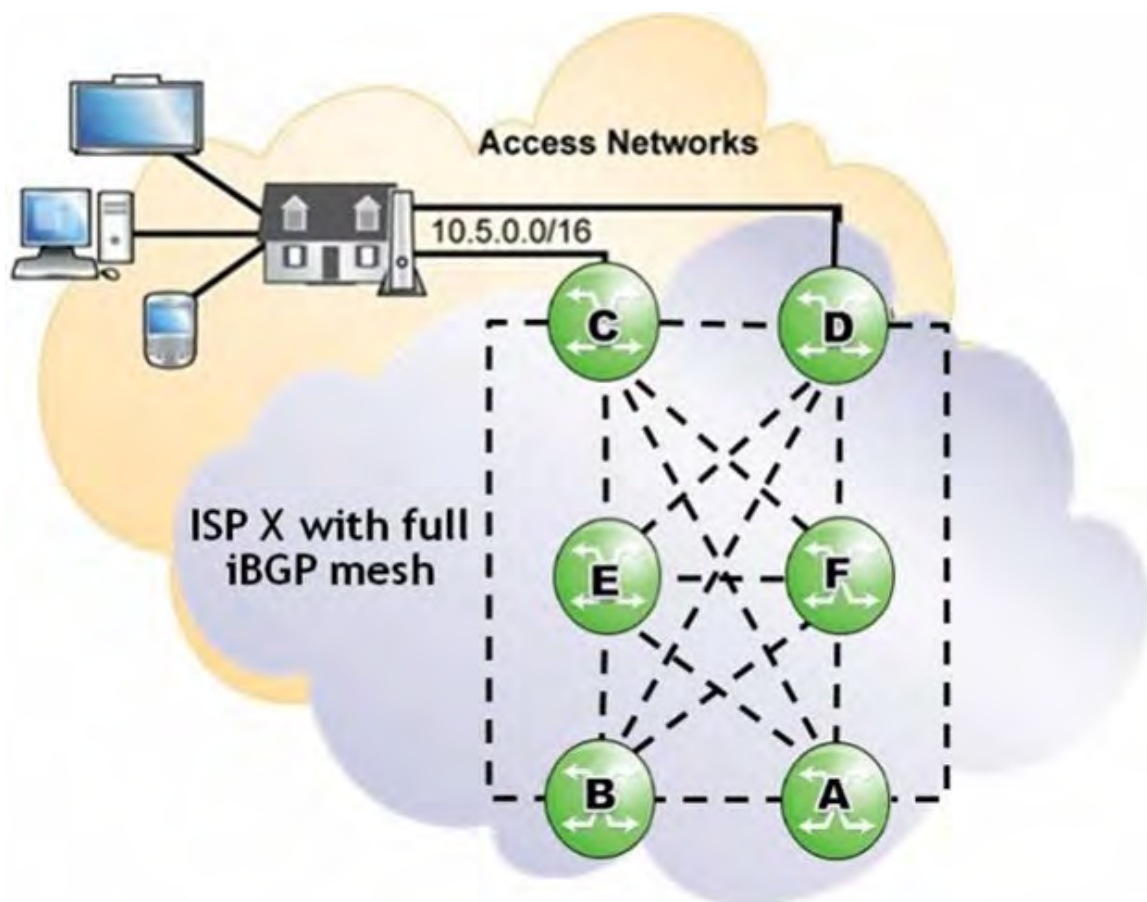
C. 500

D. None

Answer: D

Question No : 9

Click the exhibit.



Considering that both routers C and D are advertising the eBGP learned prefix 10.5.0.0/16 into ISP X, which of the following best describes the route advertisement within ISP X?

- A. Router C sends the update to routers E and F only.
- B. Router C sends the update to routers D, E and F.
- C. Router C sends the update to routers A, B, E and F.
- D. Router C sends the update to routers A, B, D, E and F.

Answer: D

Question No : 10

Router R1, in AS 65540, has the export policy shown below. It advertises an aggregate route to eBGP peer

router R2 in 65550. What is the AS Path of the aggregate route received by router R2?

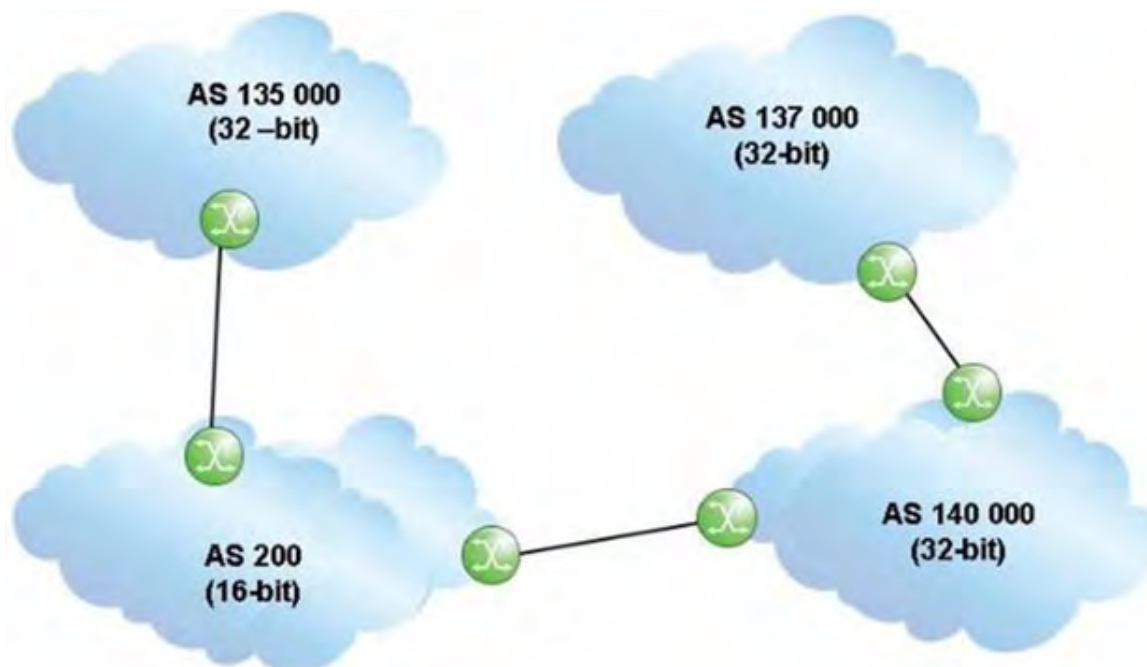
```
*A:R1>config>router>policy-options# info
```

```
-----  
policy-statement "advertise aggregate"  
  entry 10  
    from  
      protocol aggregate  
    exit  
    action accept  
      as-path-prepend 65540 1  
    exit  
  exit  
exit
```

- A. 65540
- B. 65540 1
- C. 65540 65540
- D. 65550 65540

Answer: C

Question No : 11
Click the exhibit.



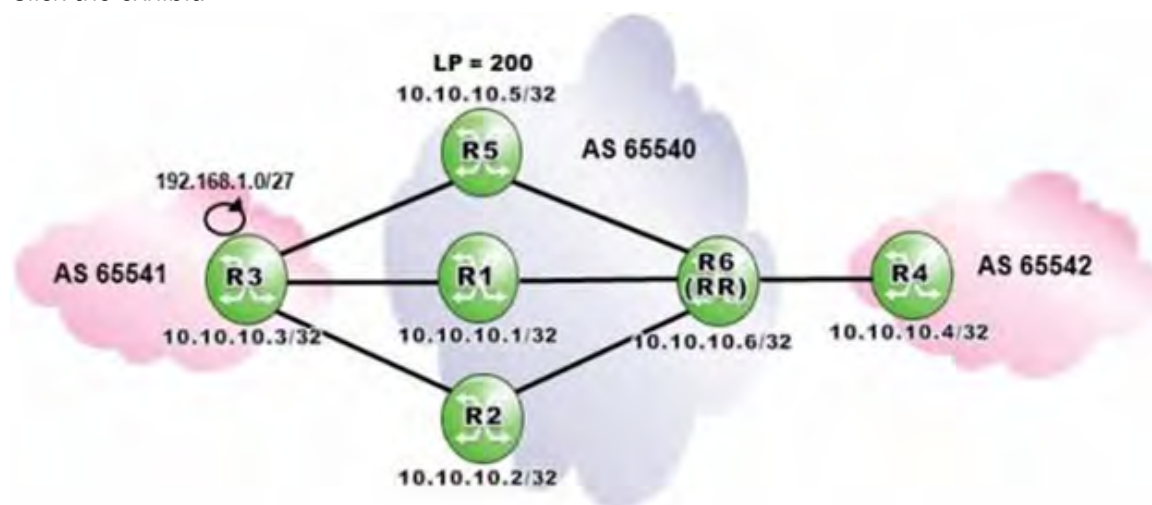
An update travels from AS 135000 to AS 137000, traversing both 32-bit and 16-bit AS paths.
What will the AS Path be when the update reaches AS 137000?

- A. 140000 200 135000
- B. 137000 140000 200 135000
- C. 140000 23456 135000
- D. 135000 200 140000

Answer: A

Question No : 12

Click the exhibit.



Router R6 is a route reflector for clients R1, R2 and R5. Router R5 is configured with a local preference of 200. On which routers is "advertise-external*" needed for router R6 to receive exactly two distinct routes for prefix 192.168.1.0/27?

- A. On router R5 only.
- B. On either router R1 or R2.
- C. On both routers R1 and R2.
- D. On all routers R1, R2 and R5.

Answer: B

Question No : 13

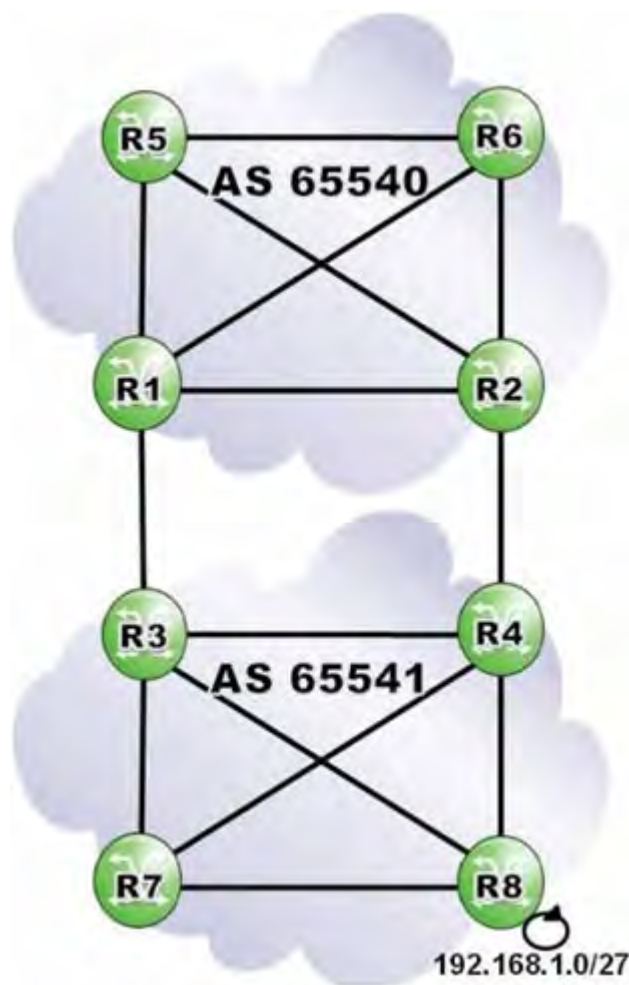
Which of the following prefix-lists is the most specific match for prefixes 192.168.64.1/20 and 192.168.32.5/19?

- A. Prefix 192.168.0.0/17 longer.
- B. Prefix 192.168.0.0/19 longer.
- C. Prefix 192.168.96.0/19 longer.
- D. Prefix 192.168.0.0/18 longer.

Answer: A

Question No : 14

Click the exhibit.



Router R2 receives a route to 192.168.1.0/27 from router R4, and sets the local preference to 110. Router R1 receives a route to 192.168.1.0/27 from router R3, and sets the local preference to 80. Both ASs have a full iBGP mesh. What path does traffic destined to 192.168.1.0/27 take from router R1?

- A. R1-R3-R8
- B. R1-R2-R4-R8

C. R1-R3-R4-R8

D. R1-R2-R4-R3-R8

Answer: B

Question No : 15

Which of the following AS Paths will match the regular expression "65100."?

A. "65100"

B. "65100 65200"

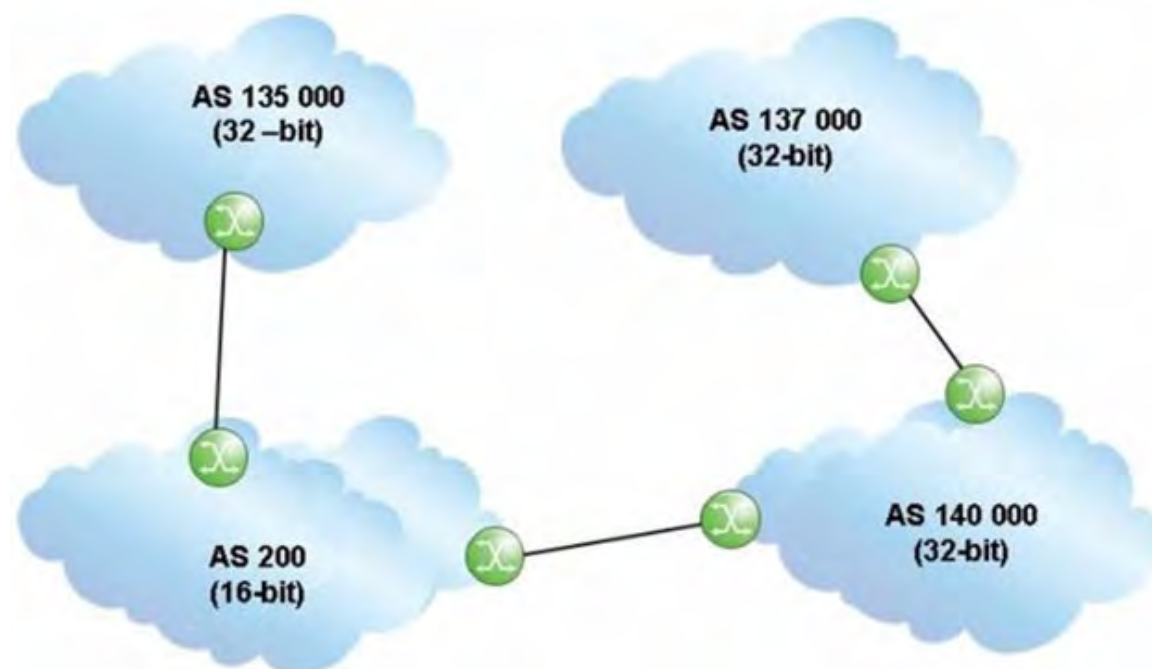
C. "65200 65100"

D. "65100 65250 65200"

Answer: B

Question No : 16

Click the exhibit.

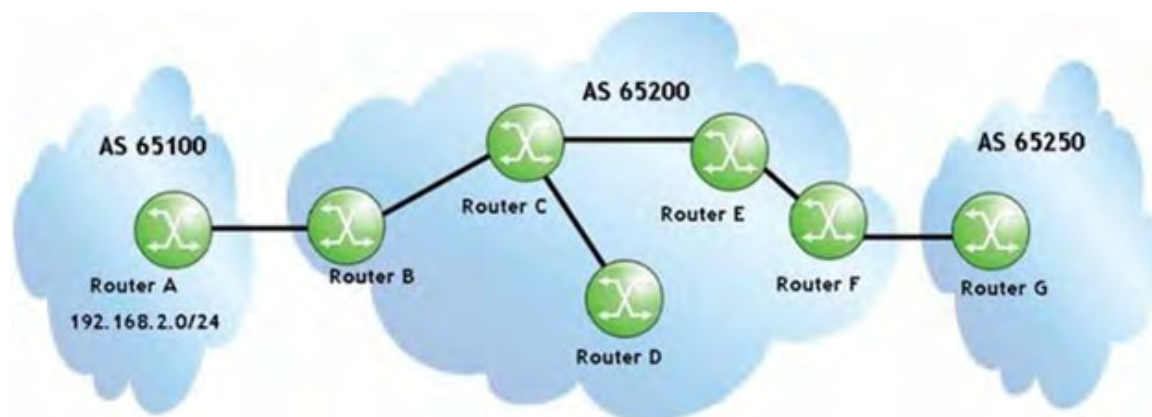


An update travels from AS 137000 to AS 135000, traversing both 32-bit and 16-bit AS Paths.
What AS Path is seen by AS 200?

- A. 140000 137000
- B. 137000 140000
- C. 23456 23456
- D. 200 140000 137000

Answer: C

Question No : 17
Click the exhibit.



Routers C and E are route reflectors. When the update for prefix 192.168.2.0/24 is received at router F, what will be the Originator_ID attribute?

- A. The router ID of router A.
- B. The router ID of router B.
- C. The router ID of router C.
- D. It will not be set.

Answer: B

Question No : 18
What kind of BGP attribute is the Multi_Exit_Disc?

- A. Optional transitive attribute.
- B. Optional non-transitive attribute.

C. Well-known mandatory attribute.

D. Well-known discretionary attribute.

Answer: B

Question No : 19

Click the exhibit.



AS 65100 is advertising 192.168.1.0/27 into BGP. Which of the following AS Paths would the prefix 192.168.1.0/27 contain when viewed on router R7?

A. 65206 65202 65100

B. (65206 65202)65100

C. (65204 65206 65202) 65100

D. (65200) 65100

Answer: B

Question No : 20

The user of an Alcatel-Lucent 7750 SR wants to see the effect of changing an import policy immediately. What is the best command to force re-evaluation of the import policy with minimal impact?

A. Configure router bgp shutdown

B. Clear router bgp neighbor <ip-address> soft

C. Clear router bgp neighbor <ip-address> soft-inbound

D. Clear router bgp protocol

Answer: C

Question No : 21

An Alcatel-Lucent 7750 SR receives a route from an eBGP peer with a MED value of 500. What MED value is sent to iBGP peers?

A. 100

B. The IGP cost

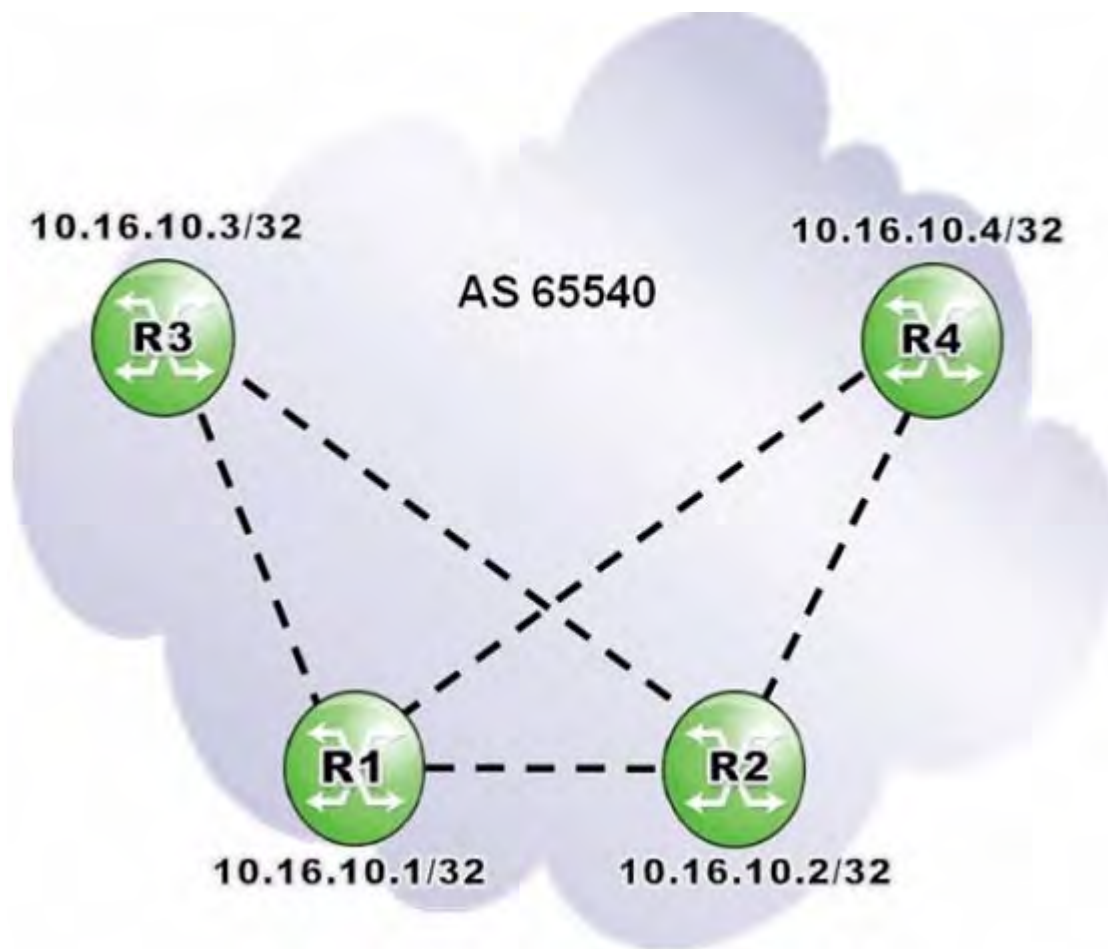
C. 500

D. None

Answer: C

Question No : 22

Click the exhibit.



Given the following configuration of router R1, what can be said about the function of each of AS65540s routers?

```
R1>config>router>bgp# info
```

```
-----  
group "AS 65540 iBGP"
```

```
    peer-as 65540
```

```
    neighbor 10.16.10.2
```

```
    exit
```

```
    neighbor 10.16.10.3
```

```
        cluster 10.16.10.1
```

```
    exit
```

```
    neighbor 10.16.10.4
```

```
        cluster 10.16.10.1
```

```
    exit
```

```
exit
```

- A. Routers R1 and R2 are redundant route reflectors with clients R3 and R4.
- B. Routers R3 and R4 are route reflectors with clients R1 and R2.
- C. Router R1 is a route reflector with clients R2, R3 and R4.
- D. Router R1 is a route reflector with clients R3 and R4.

Answer: D

Question No : 23

Which of the following is considered a best practice for BGP address planning?

- A. Advertising external networks into IGP.
- B. Using system addresses for setting up iBGP sessions.
- C. Exporting the networks associated with the external links of eBGP peers into BGP.
- D. Optimizing BGP route table by exporting IGP routes into BGP.

Answer: B

Question No : 24
Click the exhibit.

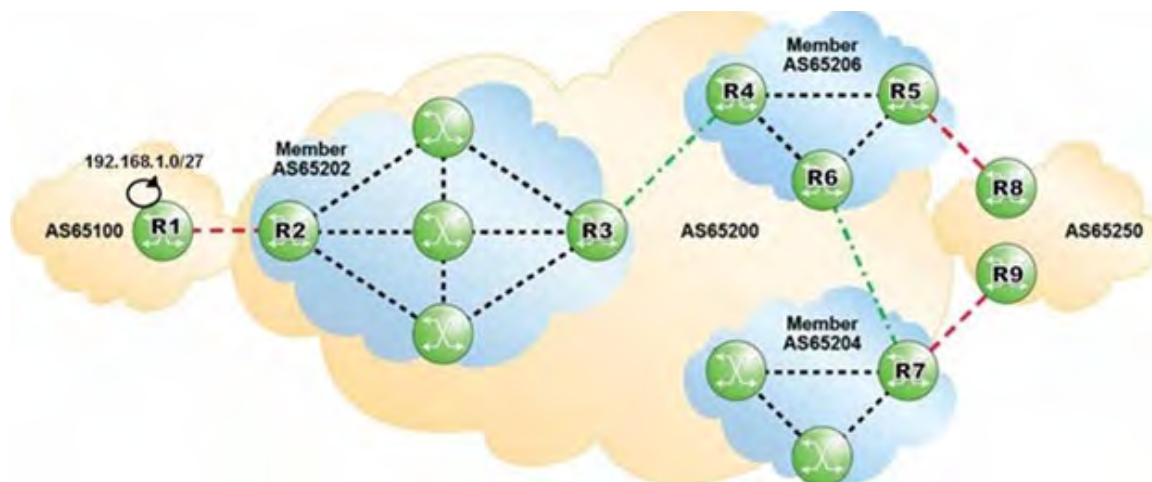


If router A originates an update for prefix 192.168.0.1/27, what will the update contain when it reaches router B?

- A. AS Path of 65200, local-preference of 100.
- B. AS Path of 65200, local-preference of None.
- C. Null AS Path, local-preference of 100.
- D. Null AS Path, local-preference of None.

Answer: C

Question No : 25
Click the exhibit.

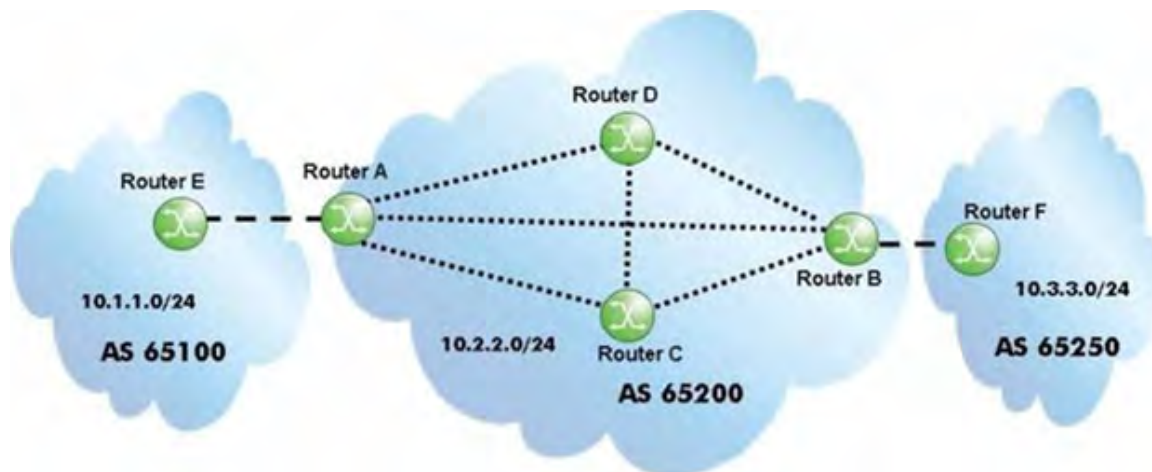


AS 65100 is advertising 192.168.1.0/27 into BGP. Which of the following AS Paths would the prefix 192.168.1.0/27 contain when viewed on router R8?

- A. 65200 (65206 65202) 65100
- B. (65206 65202)65100
- C. 65250 (65206 65202) 65100
- D. 65200 65100

Answer: D

Question No : 26
Click the exhibit.



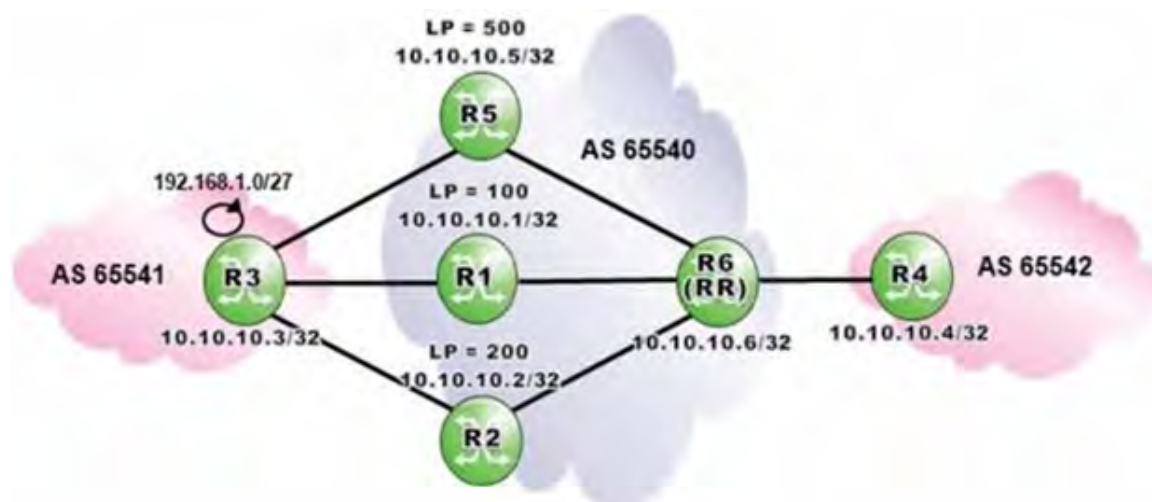
After router A receives the BGP update for the 10.3.3.0/24 prefix, which routers will the route be propagated to?

- A. All routers with which it has a BGP session.
- B. All routers with which it has a BGP session, except the router it received the update from, which is router B.
- C. All routers with which it has a BGP session, except the router it received the update from, which is router C.
- D. All routers with which it has a BGP session, except the router it received the update from, which is router D.
- E. Only eBGP neighbors.

Answer: E

Question No : 27

Click the exhibit.



Router R6 is a route reflector for clients R1, R2 and R5 with local preferences 100, 200 and 500 respectively. Router R3 advertises prefix 192.168.1.0/27 to routers R1, R2 and R5 which are configured with advertise-external. Routers R4 and R6 are both configured with "add-paths ipv4 send 2 receive". Which routes to 192.168.0.1/27 is router R4 expected to have in its BGP routing table?

- A. The routes from routers R1, R2 and R5.
- B. The routes from routers R1 and R2.
- C. The routes from routers R2 and R5.
- D. Two routes are chosen at random and advertised to router R4.

Answer: C

Question No : 28

A router receives two routes from its neighbors: a route from OSPF for 10.0.0.0/24, and a route from BGP for 10.0.0.0/8. Both routes have reachable next hops. Which of the following is TRUE?

- A. Only the BGP route is in the route table.
- B. Both routes are in the route table.
- C. None of the routes is in the route table.
- D. Only the OSPF route is in the route table.