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**Vendor:**Cisco

**Exam Code:**642-661

**Exam Name:**CCIP Configuring BGP on Cisco Routers  
(BGP)

**Version:**Demo

### QUESTION 1

Router # show ip bgp 172.31.1.0

BGP routing table entry for 172.31.1.0/24, version 15 Paths: (2 available, best #2, table Default-IP-Routing-Table)

Advertised to non peer-group peers:

10.1.0.2 10.200.200.3 10.200.200.4 172.31.11.1

65100

172.31.1.1 from 10.1.0.2 (10.200.200.2)

Origin IGP, metric 0, localpref 100, valid, internal 65100

172.31.1.1 from 172.31.1.1 (172.31.1.1)

Origin IGP, metric 0, localpref 100, valid, external, best

Based on the output shown in the exhibit, which two statements are correct? (Choose two)

- A. The eBGP route to 172.31.1.0/24 is preferred over the iBGP route to 172.31.1.0/24.
- B. 172.31.1.1 is an iBGP peer.
- C. 10.1.0.2 is an iBGP peer.
- D. 10.200.200.3 is an eBGP peer.

Correct Answer: AC

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### QUESTION 2

What is the maximum number of parallel routes that can be injected into the routing table when using the iBGP multipath load sharing feature?

- A. The number of parallel paths injected into the routing table will depend on the IGP currently in use within the iBGP domain.
- B. iBGP multipath can support up to 4 parallel paths.
- C. None, multipath is supported on eBGP only when used in conjunction with the update-source command.
- D. iBGP multipath can support up to 6 parallel paths.
- E. The maximum number of parallel paths injected into the routing table is specified by BGP MED and ranges from 2 to 256 parallel paths.

Correct Answer: D

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### QUESTION 3

Examine the following route-map configuration: route-map test permit 10 match as-path 10 set community no-export additive Which of the statements below is correct?

- A. Any route matched by as-path access-list 10 will not be advertised to BGP peers.
- B. Any route matched by as-path access-list 10 will have its BGP community attribute stripped off when the route is propagated to BGP peers.
- C. Any route matched by as-path access-list 10 will have its BGP community overwritten with the no-export community.
- D. Any route matched by as-path access-list 10 will have its BGP community attribute stripped off.

Correct Answer: A

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### QUESTION 4

When verifying the BGP neighbor relationships on your router, you issue the show ip bgp summary command and there were no results. Which of the following could be the problem?

- A. The neighbor link is down.
- B. All BGP updates from the BGP neighbor were filtered out.
- C. The TCP session to the BGP neighbor can't be established.
- D. There are no BGP neighbors configured.

Correct Answer: D

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### QUESTION 5

What are two purposes of the BGP scan-time command? (Choose two.)

- A. to tune the BGP process which walks the BGP table and confirms the reachability of next hops
- B. to allow faster detection of downed BGP peers
- C. to improve BGP convergence time
- D. to tune the BGP update interval
- E. to decrease the effects of unstable routes by increasing the route suppression time

Correct Answer: AC

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### QUESTION 6

Refer to the configuration shown. What could cause the BGP prefixes from the 10.1.1.1 BGP peer to be absent from the routing table?

```

!
interface loopback0
 ip address 10.10.10.10 255.255.255.255
!
router bgp 51001
 synchronization
 bgp log-neighbor-changes
 bgp confederation identifier 51000
 bgp confederation peers 51002 51003
 network 10.0.0.0
 neighbor 192.168.1.14 remote-as 51021
 neighbor 192.168.1.18 remote-as 51022
 neighbor 10.1.1.1 remote-as 51001
 neighbor 10.1.1.1 next-hop-self
 neighbor 10.1.1.1 update-source Loopback0
 neighbor 10.2.2.1 remote-as 51002
 neighbor 10.2.2.1 ebgp-multihop 255
 neighbor 10.2.2.1 update-source Loopback0
 neighbor 10.3.3.1 remote-as 51003
 neighbor 10.3.3.1 ebgp-multihop 255
 neighbor 10.3.3.1 update-source Loopback0
 auto-summary
!
router rip
 network 10.0.0.0
!

```

- A. BGP synchronization
- B. intraconfederation EBGP configurations error
- C. autosummarization
- D. ebgp-multihop issue
- E. EBGP configurations error

Correct Answer: A

## QUESTION 7

Given the following:

```

router bgp 65102 neighbor 10.1.1.1 remote-as 65103 neighbor 10.2.2.2 remote-as 65104 neighbor 172.16.1.4 remote-
as 65102 neighbor 10.1.1.1 route-map setlp in ! route-map setlp permit 10 match community 1 set local-preference 150
! route-map setlp permit 20 ! ip community-list 1 permit 65103:150

```

What will the configuration on R1 accomplish?

- A. Routes from AS 65103 marked with a Community of 65103: 150 will have the default Local Preference; all other routes will have a Local Preference of 150

B. Routes from AS 65103 marked with a Community of 65103: 150 will have a Local Preference of 150; all other routes will have the default Local Preference.

C. Routes from AS 65103 and AS 65104 marked with a Community of 65103: 150 will have the default Local Preference; all other routes will have a Local Preference of 150.

D. Routes from AS 65103 and AS 65104 marked with a Community of 65103: 150 will have a Local Preference of 150; all other routes will have the default Local Preference.

Correct Answer: B

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### QUESTION 8

Which one of these statements regarding intraconfederation EBGP sessions is correct?

A. Member-AS numbers are removed when a router sends a BGP update over anintraconfederation EBGP session.

B. Anintraconfederation EBGP session behaves like an IBGP session when propagating routing updates.

C. Updates from anintraconfederation EBGP neighbor are subject to the BGP split horizon rule.

D. Intraconfederation EBGP sessions must be established over loopback interfaces.

E. Intraconfederation EBGP neighbors must be directly connected.

Correct Answer: B

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### QUESTION 9

Which forward mechanism pre-builds the complete IP forwarding table (FIB) based on the IP routing table?

A. CEF Switching

B. Fast Switching

C. Process Switching

D. Optimum Switching

Correct Answer: A

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### QUESTION 10

To establish a BGP session between two BGP speakers, what will be the first BGP message sent by each BGP speaker after the transport protocol connection is established?

A. hello

B. query

C. open

D. sync

Correct Answer: C

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#### **QUESTION 11**

Which two of these statements regarding BGP and admin distances are correct? (Choose two.)

- A. External BGP routes have a default admin distance of 5.
- B. External BGP routes have a default admin distance of 20.
- C. BGP admin distance does not influence the path selection algorithm, but does influence if BGP- learned routes are placed in the IP routing table.
- D. Internal BGP routes have a default admin distance of 5.
- E. BGP admin distances do not matter, since all BGP routes are automatically installed in the IP routing table.
- F. Internal BGP routes have a default admin distance of 20.

Correct Answer: BE

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#### **QUESTION 12**

Given the AS-path of (51002 51003) 51001 i from the show ip bgp output, what is the origin?

- A. AS 51001
- B. AS 51002
- C. AS 51003
- D. IGP

Correct Answer: D

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