Vendor: Cisco

Exam Code: 350-029

Exam Name: CCIE Service Provider Written Exam, v3.0
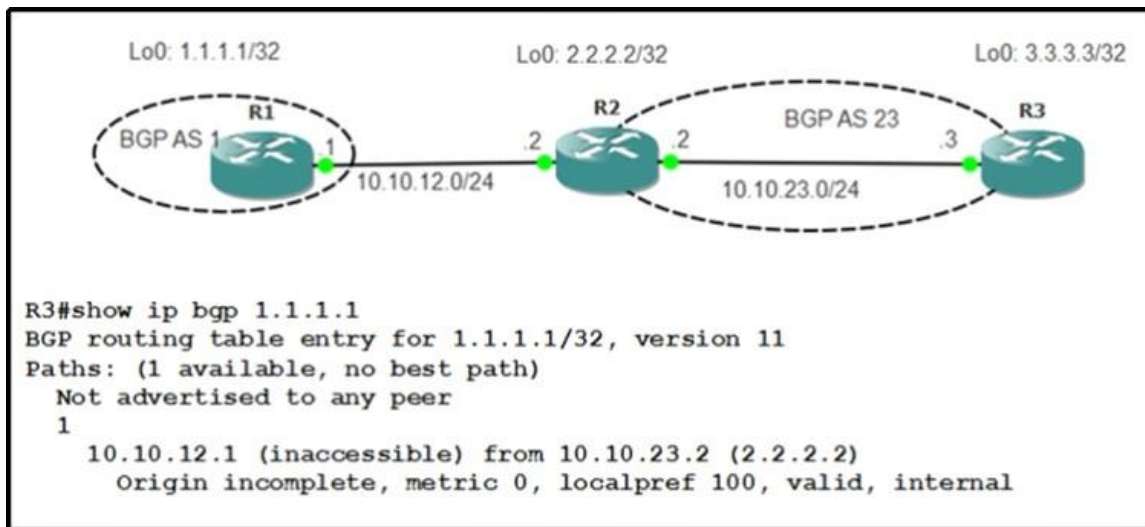
Version: DEMO

QUESTION 1
A network engineer wants to avoid route looping in an internal BGP. Which two BGP attributes are used by a route reflector to avoid this issue?(Choose two.)

A. originator ID
B. secure ID
C. cluster ID
D. network ID
E. reflector ID

Answer: AC

QUESTION 2
Refer to the exhibit. R3 is not able to install the R1 loopback address into its BGP routing table. What should be configured toinstall that route?


```
R3#show ip bgp 1.1.1.1
BGP routing table entry for 1.1.1.1/32, version 11
Paths: (1 available, no best path)
  Not advertised to any peer
  1
    10.10.12.1 (inaccessible) from 10.10.23.2 (2.2.2.2)
      Origin incomplete, metric 0, localpref 100, valid, internal
```

A. Configure R2 as a route reflector.
B. Enable EBGP multihop on R2.
C. Change the origin attribute to IGP on R3.
D. Configure the next-hop-self command on R2.
E. Configure the next-hop-unchanged command on R2.
F. Add a static route toreach 10.10.23.2 on R3.

Answer: D

QUESTION 3
A network engineer is having trouble overcoming a BGP rule: "an EBGP neighbor address information is carried in the IBGP advertisement. This information does not change to the local ASBR address". Which BGP attribute can be modified to solve this network reachability issue in this type of scenario?
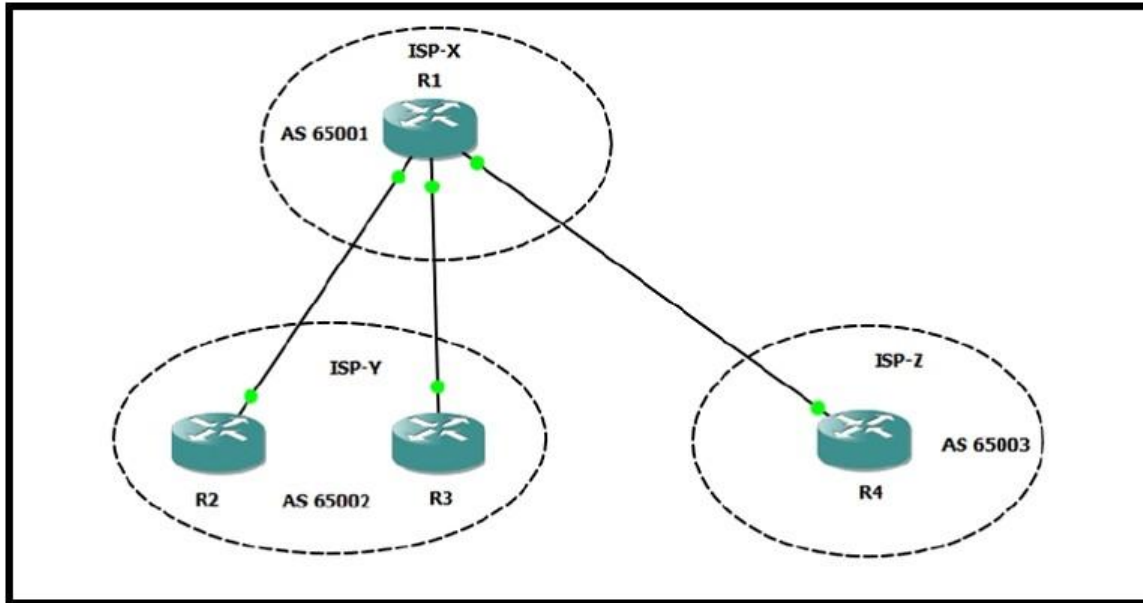
A. AS path
B. origin

C. weight
D. next-hop

Answer: D

QUESTION 4
Refer to the exhibit. ISP-X customers must be able to reach both ISP-Y and ISP-Z, but ISP-X must not allow transit traffic between ISP-Y and ISP-Z at any time. Which two options satisfy thisrequirement? (Choose two.)

A. Use the MED to prefer the proper routes.
B. Use communities to identify and filter routes.
C. Use the atomic aggregate attribute.
D. Use a route map to filter routes on the AS number.
E. Use local preference to prefer the routes.

Answer: BD

QUESTION 5
The SP core supports PIM-SM for multicast traffic, but one of these routers is not able to see oneof its PIM neighbors. What is the most likely cause of this issue?

A. The router is an RP with high priority.
B. IGMP snooping is not enabled.
C. PIM sparse mode is not enabled on a participating multicast interface.
D. PIM protocols are not enabled in global configuration mode.
E. Auto-RP is not enabled on this network.

Answer: C

QUESTION 6
Refer to the exhibit. There are receivers that are registered at the RP. If the source begins sending multicast traffic toward R1, how will R1 handle that traffic?
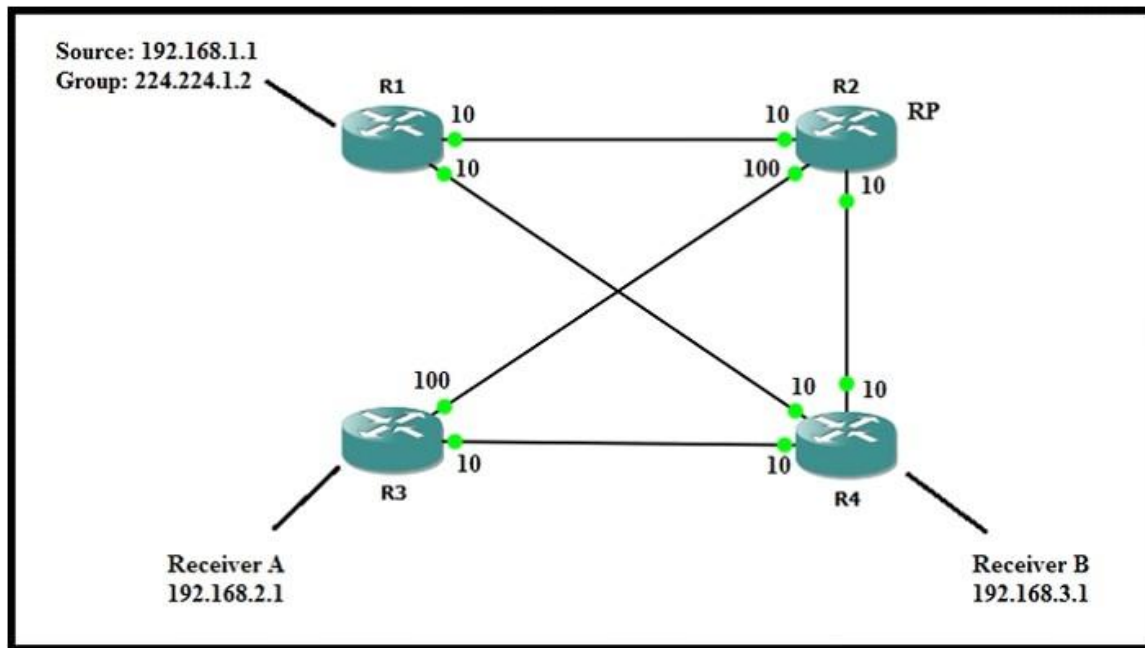
A. R1 forwards the multicast packets on the (S, G) tree toward the RP.
B. R1 encapsulates the multicast packets into a PIM register multicast packet.
C. R1 encapsulates the multicast packets into a PIM join unicast packet.
D. R1 tunnels the multicast packets in PIM register messages toward the RP.

Answer: D

QUESTION 7
A network architect is tasked to design and deploy multicast in a service provider core.
There is a requirement to have two PIM RP routers for PIM-SM distribute mode.
What can the network architect do to satisfy this requirement?

A. Set two RPs with same priority.
B. Set two RPs, one with high priority and the other with low priority.
C. Set one RP as the main RP and another as a backup RP.
D. Set the RP-BSR method with one high-priority RP and one low-priority RP.

Answer: D

QUESTION 8
Drag and Drop Question

Drag the Layer 2 QoS marking types on the left to the correct Layer 2 QoS names on the right.	
1-bit drop eligibility flag	experimental bit
3-bit 802.1p field in 802.1Q header	discard eligibility
1-bit drop eligibility flag	class of service
3-bit on MPLS header	cell loss priority

Answer:

Drag the Layer 2 QoS marking types on the left to the correct Layer 2 QoS names on the right.	
	3-bit on MPLS header
	1-bit drop eligibility flag
	3-bit 802.1p field in 802.1Q header
	1-bit drop eligibility flag

QUESTION 9
Cisco IOS XR software is partitioned into three planes: control, data, and management. Which three of these belong to the data plane? (Choose three.)

A. XML
B. RIB
C. FIB
D. QoS
E. PFI

Answer: BDE

QUESTION 10
Drag and Drop Question

Drag and arrange the Ethernet Q-in-Q frame format fields on the left in the correct sequence on the right.	
Etype	1
Outer VLAN tag	2
FCS	3
Destination Address	4
Data	5
Inner VLAN tag	6
Source Address	7

Answer:

Drag and arrange the Ethernet Q-in-Q frame format fields on the left in the correct sequence on the right.	
	Destination Address
	Source Address
	Outer VLAN tag
	Inner VLAN tag
	Etype
	Data
	FCS

QUESTION 11
Which three BGP attributes are carried by TLV? (Choose three)

A. local preference
B. weight
C. origin
D. Network Layer Reachability Information
E. multiple exit discriminator

Answer: ADE

QUESTION 12
Which statement about L2VPN Pseudowire Switching is not true?

A. L2VPN Pseudowire Switching allows the user to extend L2VPN Pseudowires across an inter- AS boundary
B. L2VPN Pseudowire Switching allows the user to extend L2VPN Pseudowires across two separate MPLS networks.
C. Quality of service is not supported per Pseudowire
D. L2VPN Pseudowire Switching connects two or more contiguous Pseudowires segments to from an end-to-end multihop Pseudowire
E. The Cisco MPLS Traffic Engineering tunnel selection is not supported

Answer: E

QUESTION 13
What are the Address Family Identifier (AFI) and Subsequent Address Family Identifier (SAFI) values for VPNv6?

A. AFI is 2, SAFI is 96
B. AFI is 1, SAFI is 98
C. AFI is 1, SAFI is 64
D. AFI is 1, SAFI is 128
E. AFI is 2, SAFI is 128
F. AFI is 2, SAFI is 64

Answer: E

QUESTION 14
A customerwants the minimum delay for the transit traffic that traverses the service provider core. An engineer realizes that the customer sites are remotely dispersed and wants to give them a specific path through the MPLS core with guaranteed bandwidth and withoutrelying on the shortest path of OSPF as the customer IGP. Which technology will achieve the required result?

A. L2VPN
B. IPsec tunnel
C. MPLS TE tunnel
D. L3VPN
E. mGRE with extensions

Answer: C

QUESTION 15
A network engineer is implementing anMPLS network among devices from different vendors. The devices must be configured with MPLS VPN service and MPLS TE. Based on options provided, which three protocols fulfill all of these requirements? (Choose three.)

A. RSVP
B. LDP
C. TDP
D. EIGRP
E. IGRP
F. BGP
G. RIP

Answer: ABF

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