



Vendor: Cisco

Exam Code: 350-029

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

Version: DEMO

QUESTION 1

A service provider is using QoS to manage customer traffic over the MPLS backbone. Which three statements about the behavior of each MPLS QoS mode based on QoS policy in the service provider core are true? (Choose three.)

- A. Uniform mode does not change the original CE IP packet markings.
- B. Uniform mode changes the original CE IP packet markings.
- C. Pipe mode does not change the original CE IP packet markings.
- D. Pipe mode changes the original CE IP packet markings.
- E. Short-pipe mode does not change the original CE IP packet markings.
- F. Short-pipe mode changes the original CE IP packet markings.

Answer: BCE

QUESTION 2

Refer to the exhibit. Which BGP feature causes the BGP RIB entry "inaccessible"?

```
RR# show ip bgp 192.168.1.0
BGP routing table entry for 192.168.1.0/24, version 13
Paths: (2 available, best #2)
Flag: 0x900
  Advertised to update-groups:
    1          2
Local, (Received from a RR-client)
  10.10.10.21 (inaccessible) from 10.10.10.21 (10.10.10.21)
    Origin IGP, metric 0, localpref 100, valid, internal
Local, (Received from a RR-client)
  10.10.10.22 (metric 41) from 10.10.10.22 (10.10.10.22)
    Origin IGP, metric 0, localpref 100, valid, internal, best
```

- A. BGP synchronization
- B. eBGP multihop
- C. BGP scanner
- D. BGP NHT

Answer: D

QUESTION 3

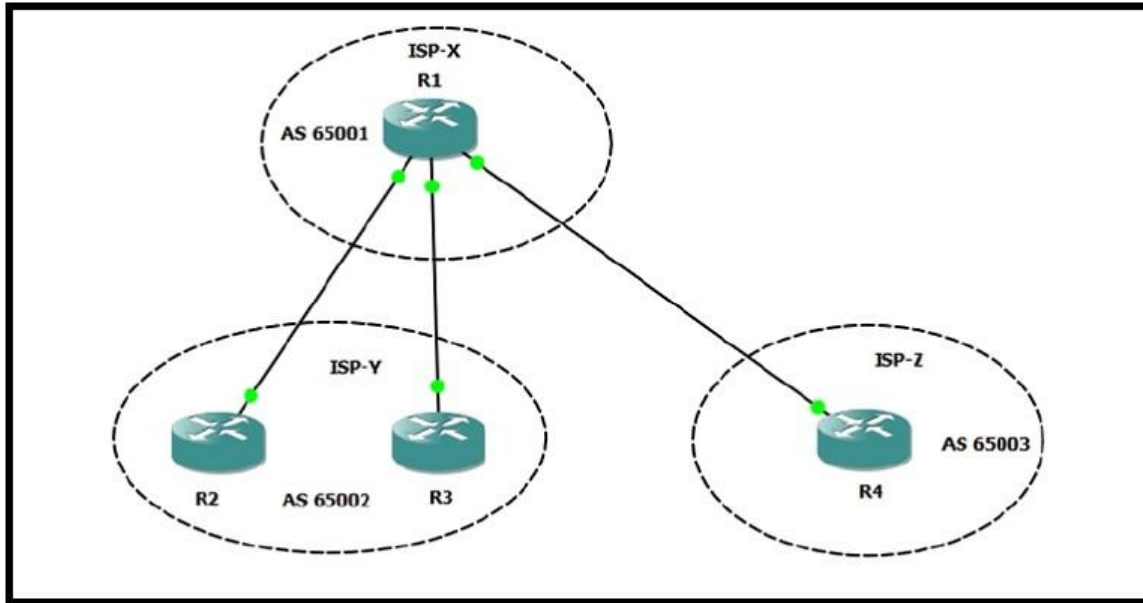
Which option is the minimum MTU of a link to form a full IS-IS adjacency successfully?

- A. 4096 bytes
- B. 1500 bytes
- C. 1492 bytes
- D. 1460 bytes

Answer: C

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 this requirement? (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

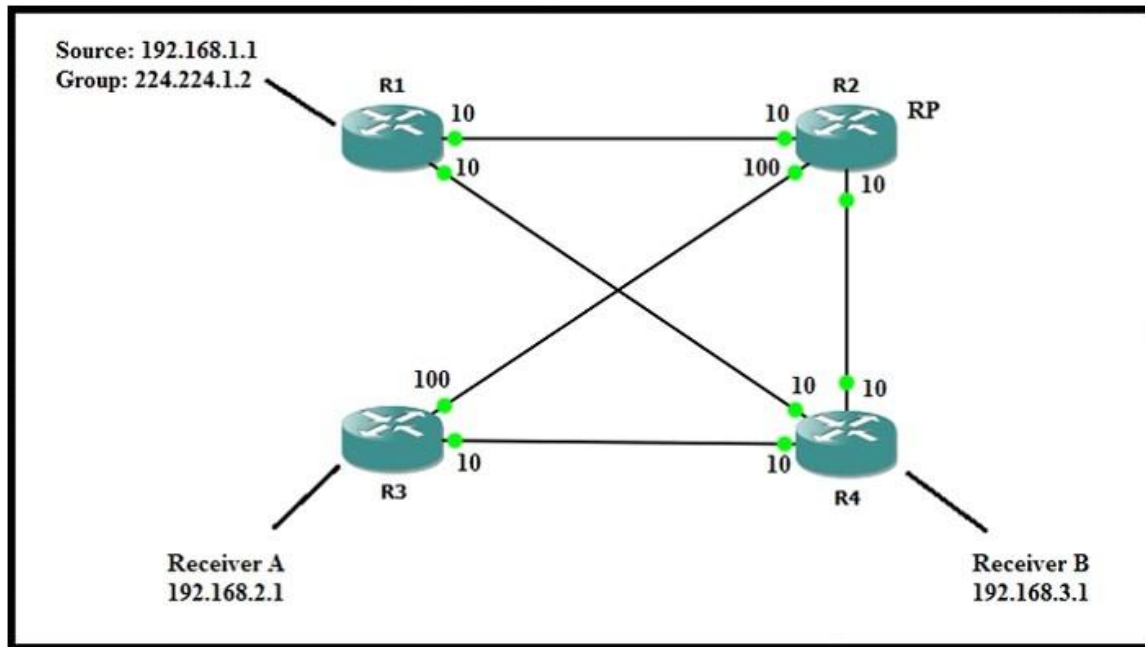
In which three scenarios does multihoming in IS-IS work? (Choose three.)

- A. merging Level 1 areas
- B. splitting the Level 1 area
- C. renumbering NSAP addresses
- D. modifying the system ID
- E. merging Level 2 areas
- F. splitting the Level 2 area
- G. creating an alternative path to the exit point

Answer: ABC

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

An engineer is designing a SONET network using Cisco 7600 and the ONS 15454 platform. Which Cisco 7600 module allows for three 45 Mbps serial interfaces?

- A. OC-12c/STM-4c ATM
- B. OC-12/STM4 to DS3/E3
- C. OC-3c/STM-1 POS/SDH
- D. OC-12c/STM-4 POS/SDH

Answer: B

QUESTION 8

Which option propagates SRLG membership information to the network?

- A. BGP attribute
- B. IGP extension
- C. RSVP extension
- D. LDP extension
- E. PIM extension

Answer: B

QUESTION 9

Drag and Drop Question

Drag and drop the SONET parity error bit on the left to the corresponding SONET layer on the right.
Not all options will be used.

B1	section
E1	line
B2	path
E2	
B3	
E3	

Answer:

Drag and drop the SONET parity error bit on the left to the corresponding SONET layer on the right.
Not all options will be used.

B1	B1
E1	B2
B2	B3
E2	
B3	
E3	

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 two statements about a backup tunnel to avoid the SRLGs of its protected interface are true? (Choose two.)

- A. Tunnel is not created unless it avoids SRLGs on the protected interface.
- B. If it is not possible to avoid SRLG of the protected interface, backup tunnel will be created anyways.
- C. If it is not possible to avoid SRLG of the protected interface, backup tunnel will not be created.
- D. Backup tunnel can be created between IGP areas as long as SRLG is configured along the path.
- E. Manually created backup tunnel do automatically avoid SRLG of protected interfaces.

Answer: AB

QUESTION 12

A service provider engineer has been requested to preserve QoS values when customer packets cross the MPLS backbone. Which Cisco IOS command should the engineer apply and what should the label value be when the LSR at the penultimate hop forwards the MPLS label packets toward the egress PE?

- A. mpls ldp explicit-null with label value of zero
- B. mpls ldp implicit-null with label value of zero
- C. mpls ldp explicit-null with label value of three
- D. mpls ldp implicit-null with label value of three

Answer: A

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 customer wants 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 without relying 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 an MPLS 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

QUESTION 16

Which Inter-AS option allows a service provider to provision AToM along with L3VPN provisioning?

- A. MPLS VPN Inter-AS with ASBRs exchanging VPN-IPv4 addresses
- B. MPLS VPN Inter-AS with ASBRs exchanging IPv4 routes and MPLS labels
- C. MPLS VPN Inter-AS Option AB
- D. back-to-back VRFs

Answer: B

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