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QUESTION 1

What is the difference between a source tree and a shared tree in a multicast environment?

- A. To route traffic from source to receiver a source tree uses a link-state routing protocol and a shared tree uses a distance-vector routing protocol.
- B. A source tree has its root at the source, and a shared tree has its root at a designated rendezvous point.
- C. To stream multicast from source to receiver, a source tree uses PIM-SM and a shared tree uses PIM-DM.
- D. Source trees are the default type for bidirectional PIM, and PIM-DM uses shared trees by default.

Correct Answer: B

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipmulti_pim/configuration/xe-16-5/mc-pim-xe-16-5-book/mmc-tech-oview.html

QUESTION 2

For which reason do you deploy BGP confederations within a BGP transit backbone?

- A. to support a larger number of eBGP peer sessions
- B. to increase the number of routes that can be redistributed between the running IGP and BGP
- C. to reduce the number of eBGP routes that must be shared between autonomous systems
- D. to reduce the number of iBGP peering sessions

Correct Answer: D

QUESTION 3

An engineer is troubleshooting a connectivity issue across the MPLS network and is verifying the forwarding behavior of packets.

Which table does the engineer look at to verify the forwarding behavior of an IP packet as it enters the MPLS network at the ingress LSR?

- A. LFIB
- B. LIB
- C. RIB
- D. FIB

Correct Answer: A

<https://community.cisco.com/t5/image/serverpage/image-id/44142/C3B9032F415B1395?v=v2>

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Cisco 300-510 certification exam is designed to test the knowledge and skills of IT professionals in implementing advanced routing solutions for service providers. 300-510 exam is intended for individuals who are interested in pursuing a career in the field of networking and specifically in the service provider industry. Passing 300-510 Exam is a prerequisite for obtaining the Cisco Certified Specialist - Service Provider Advanced Routing Implementation certification.

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Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q251-Q256):

NEW QUESTION # 251

After an engineer configures BGP in R1, it starts receiving this message

*Jun 29 13:30:50.122: %BGP-5-ADJCHANGE: neighbor 192.168.10.1 Down User reset Jun 29 13:30:52.341: %BGP-3-NOTIFICATION: sent to neighbor 192.168.10.1 2/6 (unacceptable hold time) 0 bytes Which action makes the peering come back up again?

- A. Set up a hello timer higher.
- B. Set up a hold-down timer higher.
- **C. Set up a minimum hold-down timer higher.**
- D. Make a soft reset to the peer.

Answer: C

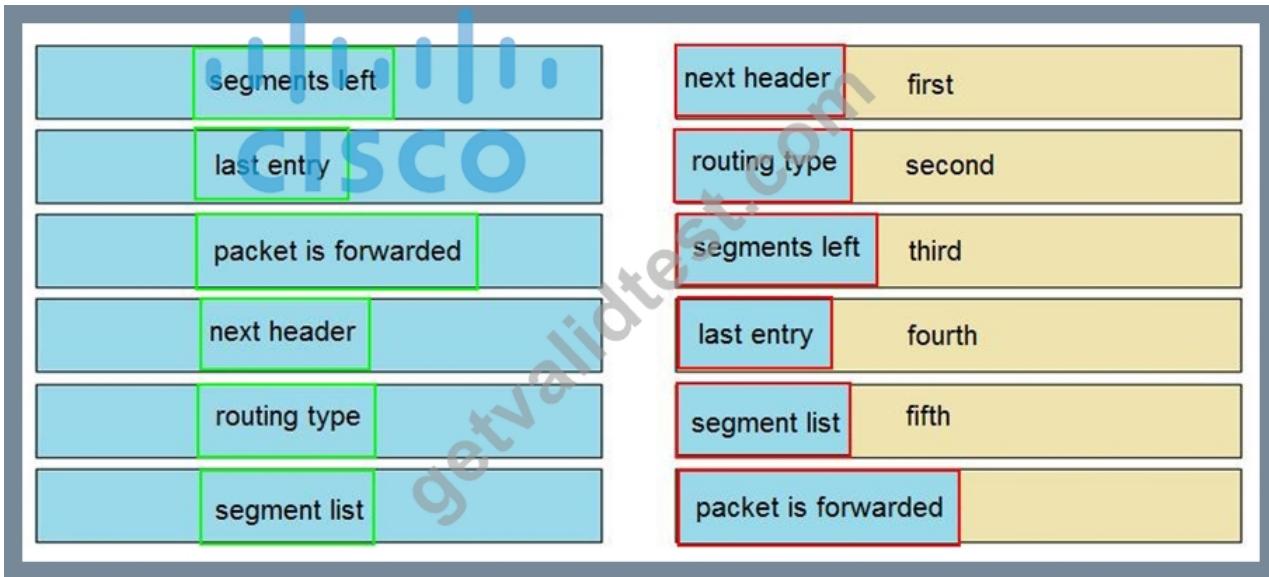
NEW QUESTION # 252

Drag and drop the features from the left into the order of operations for SRv6 SSH field creation and forwarding on the right.



Answer:

Explanation:



NEW QUESTION # 253

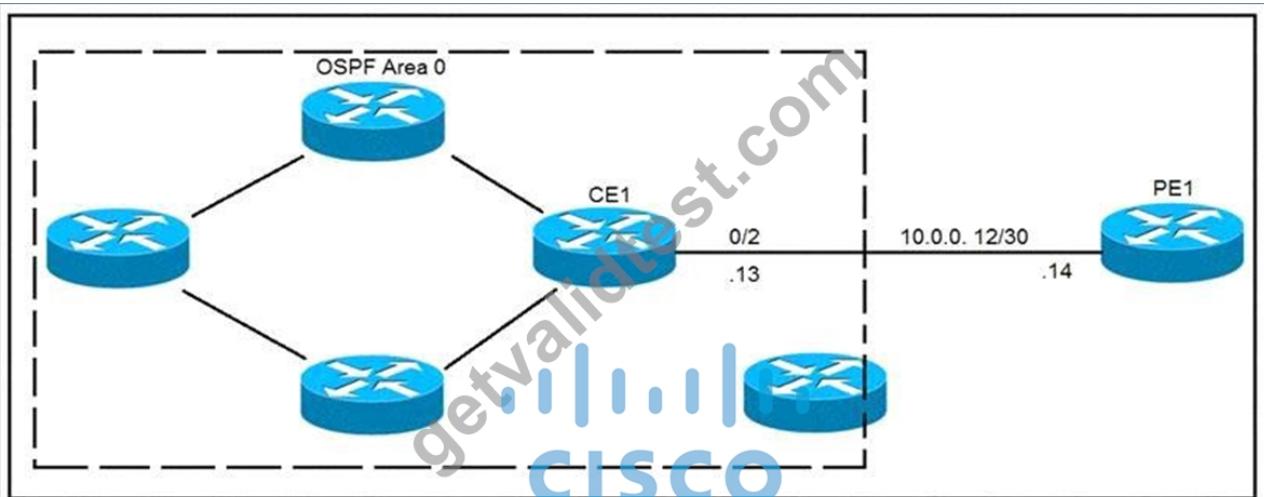
Which feature provides service independence in service provider networks?

- A. binding SID that is used to stitch different domains
- B. node SID that identifies the network device**
- C. prefix SID that contains router hops toward the destination
- D. adjacency SID that represents a path between the routers

Answer: B

NEW QUESTION # 254

Refer to the exhibit.



CE1 is the gateway router into the provider network via PE1. A network operator must inject a default route into OSPF area 0. All devices inside area 0 must be able to reach PE1. Which configuration achieves this goal?

A. #CE1
router ospf 1
 default-information originate always

B. #CE1
ip route 0.0.0.0 0.0.0.0 GigabitEthernet0/2 10.0.0.14
!
router ospf 1
 redistribute static

C. #CE1
ip route 0.0.0.0 0.0.0.0 GigabitEthernet0/2 10.0.0.14
!
router ospf 1
 default-information originate

D. #CE1
ip route 0.0.0.0 0.0.0.0 GigabitEthernet0/2 10.0.0.14
!
router ospf 1
 redistribute static subnets

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

Answer: D

NEW QUESTION # 255

How does conditional matching operate with RPL?

- A. The matching identifies a set of criteria, and an action is taken based on whether the criteria are the same or different.
- B. The matching identifies a group of routes that are removed from the routing table when the administrator defined tags match.
- C. The matching identifies interfaces that run the same routing protocol and manipulates data based on the routing rules.
- D. The matching identifies tags that are placed on routes from neighboring autonomous systems and drops the routes if they are the same.

Answer: A

Explanation:

RPL (Routing Policy Language) operates by using conditional matching to evaluate routes based on specific criteria. The criteria can include attributes like prefixes, communities, route tags, local preferences, or AS paths. Once the match condition is evaluated,

NEW QUESTION # 256

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