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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/mc-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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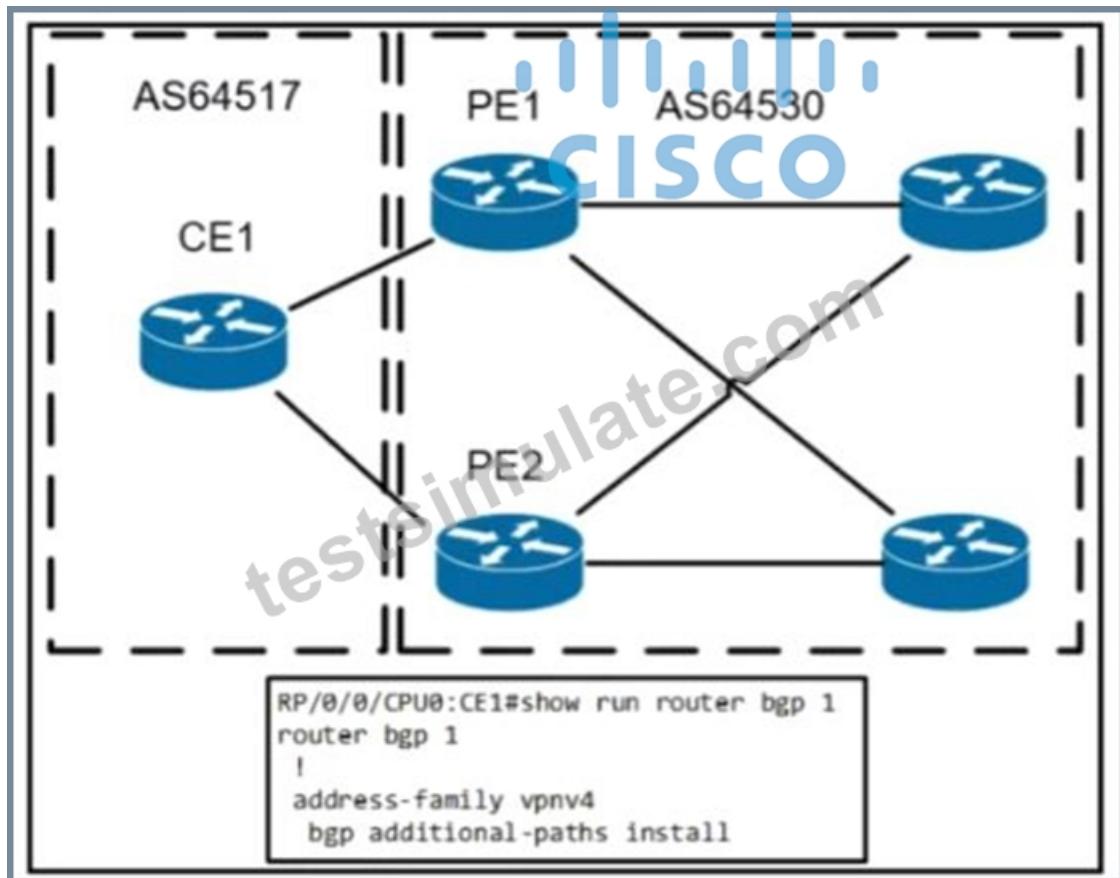
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Candidates for the Cisco 300-510 Exam should have a strong foundation in networking technologies and protocols, as well as experience working in a service provider environment. They should be familiar with advanced routing technologies such as BGP, OSPF, IS-IS, and MPLS, and have experience designing and implementing complex routing solutions. Candidates should also be familiar with network security, network management, and network troubleshooting techniques, as these skills are critical for success in a service provider environment.

Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q60-Q65):

NEW QUESTION # 60

Refer to the exhibit.



A network operator is configuring BGP PIC on CE1 on already established neighborships with PE1 and PE2 inside the fully converged MPLS network. Which element needs to be implemented to make this feature function effectively?

- A. BGP import export policies must be applied on all devices for the routes needing BGP for PIC
- B. Bidirectional Forwarding Detection must be applied to the upstream facing BGP interfaces.**
- C. community of 1 10 must be used to denote the PIC feature set to the routing protocol
- D. The operator must ensure that all prefixes have the same next-hop from PE1 and PE2 for BGP PIC reserved BGP

Answer: B

NEW QUESTION # 61

Refer to the exhibit. Which tree does multicast traffic follow?

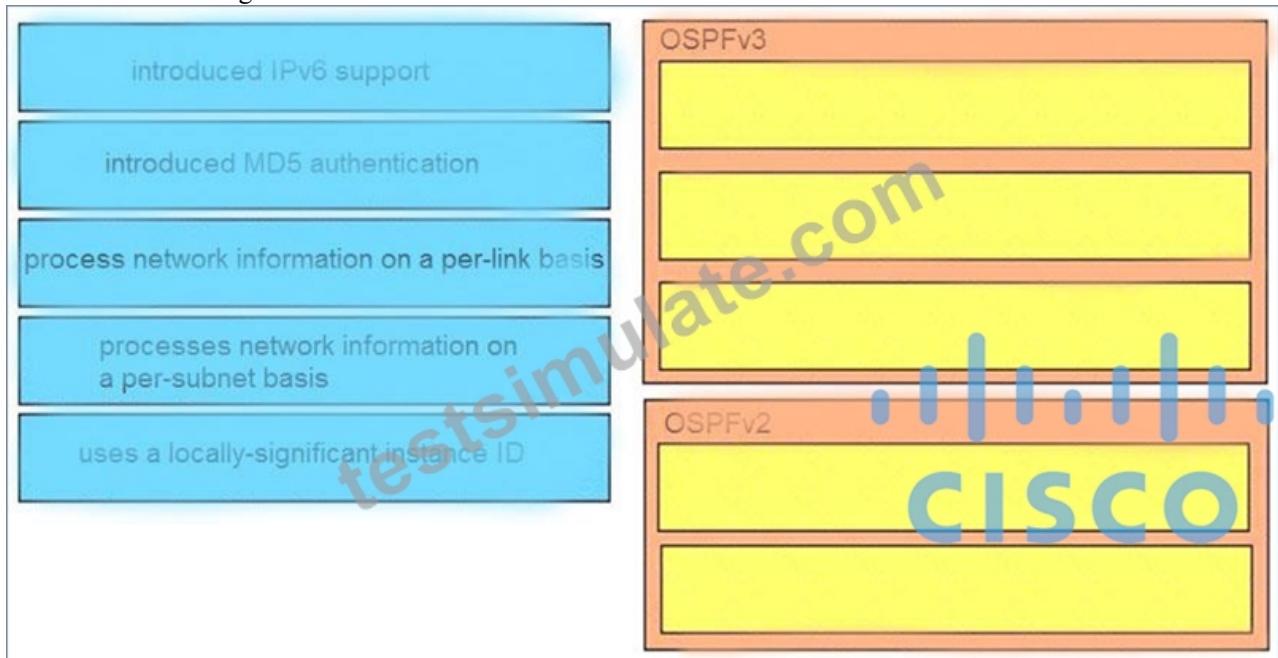
<pre> PE-A vrf definition Customer-A rd 65000:1111 route-target export 65000:1111 route-target import 65000:1111 ! address-family ipv4 mdt default 233.0.0.1 mdt data 233.0.0.2 0.0.0.0 threshold 100 exit-address-family </pre>	<pre> PE-B vrf definition Customer-A rd 65000:1111 route-target export 65000:1111 route-target import 65000:1111 ! address-family ipv4 mdt default 233.0.0.1 mdt data 233.0.0.3 0.0.0.0 threshold 100 exit-address-family </pre>
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- A. shared tree
- **B. MDT default**
- C. MDT voice
- D. source tree

Answer: B

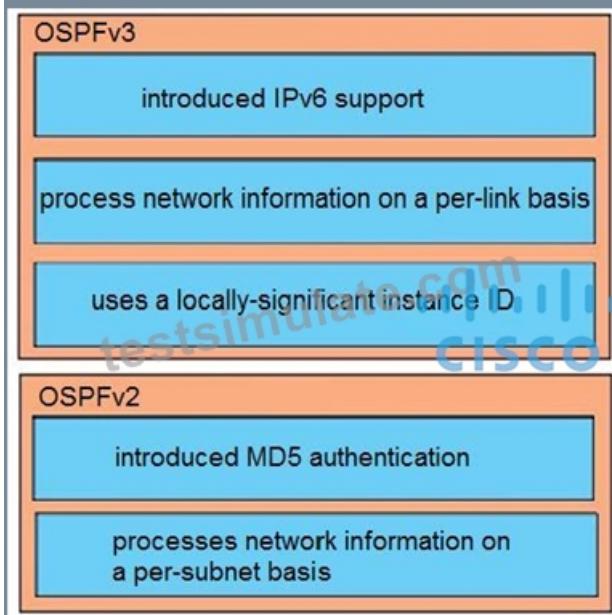
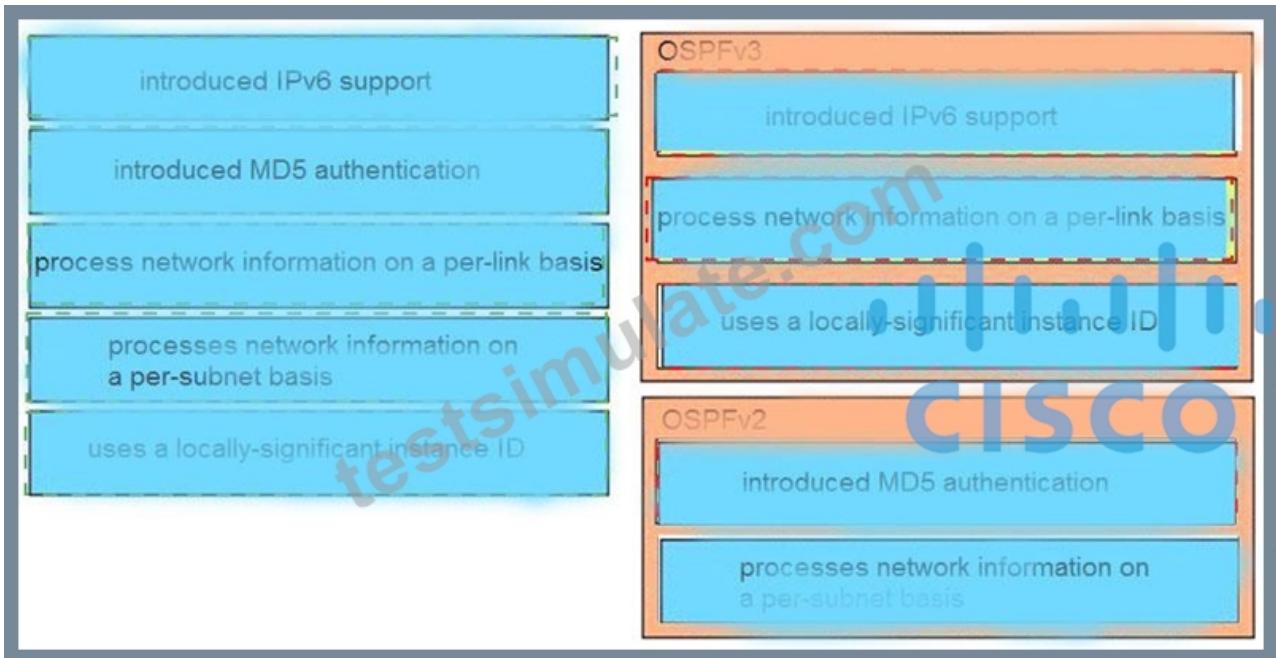
NEW QUESTION # 62

Compare different features between OSPFv2 and OSPFv3. Drag and drop the descriptions of OSPF from the left onto the correct OSPF versions on the right.



Answer:

Explanation:



NEW QUESTION # 63

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

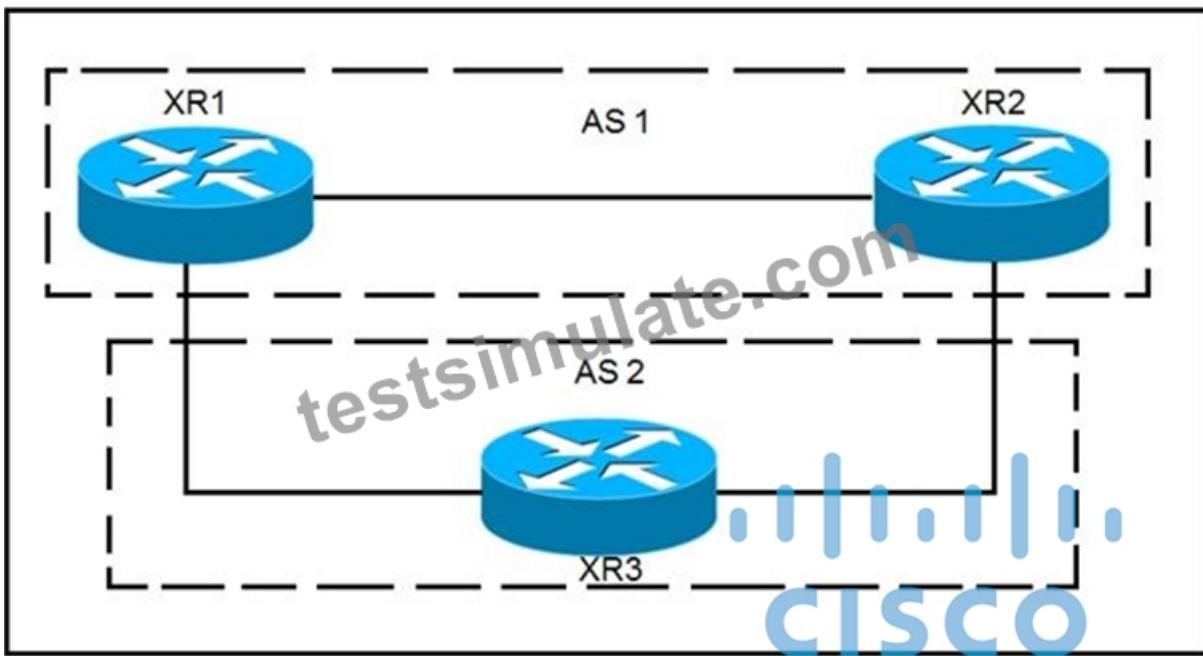
*Jun 29 13:30:50.122: %BGP-5-ADJCHANGE: neighbor 192.168.10.1 Down User reset Jun 29 13:30:52.341: %BGP-3-NOTIFICATION: sent to neighbor 192.168.10.1 2/6 (unacceptable hold time) 0 bytes Which action makes the peering come back up again?

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

Answer: C

NEW QUESTION # 64

Refer to the exhibit.



XR1 and XR2 are sending the prefix 10.11.11.0/24 to XR3. A configured policy on XR1 is incorrectly prepending AS path 11 11 12 12 onto this prefix. A network operator wants to add a policy onto XR3 that will not allow the falsely prepending prefix from being installed. Which policy configuration applied to the XR3 neighbor configuration for XR1 can accomplish this requirement without impact to other or future received routes?

- 1.

```
route-policy NO_PREPEND
  if as-path passes-through '11' then
    pass
  else
    drop
  endif
end-policy
```
- 2.

```
route-policy NO_PREPEND
  if as-path prepends
    drop
  else
    pass
  endif
end-policy
```

```

- route-policy NO_PREPEND
  if as-path passes-through '1' then
    pass
  else
    drop
  endif
end-policy

) route-policy NO_PREPEND
  if as-path passes-through '11' then
    drop
  else
    pass
  endif
end-policy

```

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

Answer: B

Explanation:

Reference:

b_routing_cr41crs/b_routing_cr41crs_chapter_01000.html#wp3850885229

NEW QUESTION # 65

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