300-515^{Q&As}

Implementing Cisco Service Provider VPN Services (SVPI)

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QUESTION 1

Which BGP feature causes to replace the AS number of originating router with the AS number of the sending router?

A. route reflectors

B. route dampening

C. confederations

D. AS override

Correct Answer: D

Reference: https://community.cisco.com/t5/networking-documents/understanding-bgp-as-override-feature/ta-p/3111967

QUESTION 2

```
Router# show mpls forwarding-table
Local  Outgoing      Prefix           Bytes label  Outgoing    Next Hop
label  label or VC   or Tunnel Id     switched     interface
29     Pop tag       10.22.22.22/32   0            Gi1/1/0     172.32.0.1
32     0             10.24.24.24/32   0            Gi1/0/0     192.168.1.2
33     0             172.24.24.24/32  0            Gi1/0/0     192.168.1.2
34     0             192.168.0.0/8    0            Gi1/0/0     192.168.1.2
35     0             10.25.25.25/32   0            Gi1/0/0     192.168.1.2
36     0             172.16.0.0/8     0            Gi1/0/0     192.168.1.2
37     25            10.26.26.26/32   0            Gi1/0/0     192.168.1.22
38     0             10.34.34.34/32   0            Gi1/0/0     192.168.1.2
```

Refer to the exhibit. Which statement about this output is true?

A. The router IP 192.168.1.2 sent an implicit null, and the output is from the penultimate LSR.

B. The adjacent router is the egress LSR and has mpls ldp explicit-null configured.

C. The adjacent LSR router configured mpls label range 0.

D. The zero in the second column is the normal behavior of an egress router LSR.

Correct Answer: B

QUESTION 3

An engineer is investigating an MPLS LDP issue. Which command should an engineer use on a Cisco IOS XE device to

display the contents of the LFIB?

A. show mpls forwarding-table

B. show mpls ldp neighbors

C. show mpls ldp labels

D. show mpls ldp bindings

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mpls/command/mp-cr-book/mp-s2.html

QUESTION 4

```
ip vrf mvpn-extranet
  rd 12:1
  vpn id 12:1
  route-target import 12:2
  route-target export 12:3
  mdt default mpls mldp 192.168.1.2
  exit
ip multicast-routing vrf mvpn-extranet
```

Refer to the exhibit. What is the effect of this configuration?

A. The mroute table is cleared.

B. Router 1 accepts multicast routes with a tag of 12:1

C. A Cisco MPLS TE tunnel is generated with 192.168.1.2 as the source IP address of router 1.

D. An LSP virtual interface tunnel is created.

Correct Answer: B

QUESTION 5
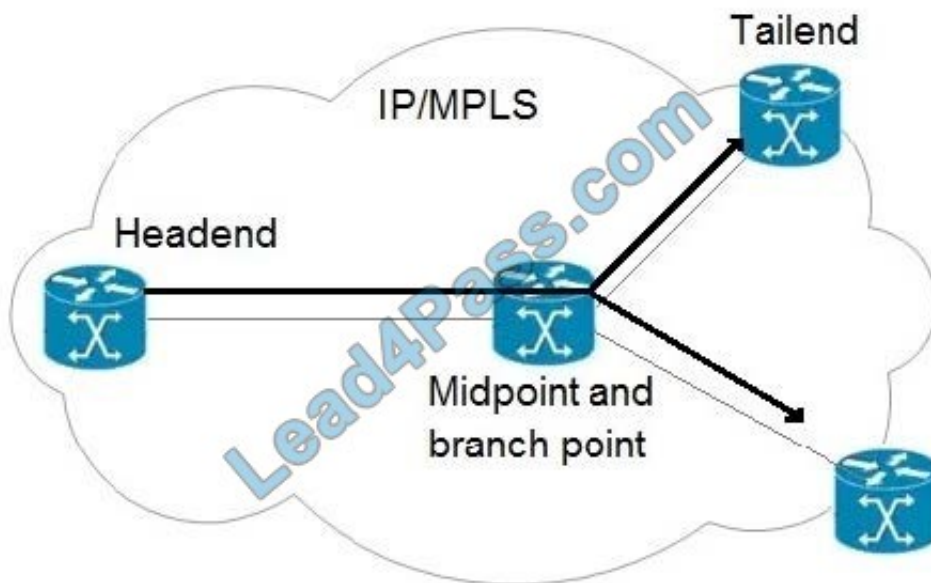
Refer to the exhibit. An engineer is implementing an MPLS P2MP TE solution. Which type of router can serve as the midpoint router and the tailend router in this P2MP TE network implementation?

A. headend

B. source

C. transit

D. bud

Correct Answer: D

Reference: https://www.cisco.com/c/en/us/td/docs/routers/asr920/configuration/guide/mpls/mp-te-path-setup-xe-3s-asr920-book/mp-te-path-setup-xe-3s-asr920-book_chapter_01.html

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QUESTION 6

The CTO of a company requires the support of a network consultant to deliver an MPLS solution without resigning to a certain degree of redundancy and scalability. Which solution effectively scales to hundreds or thousands of sites?

A. L2VPN with the broadcast traffic processed at the ingress PE.

B. L3VPN with direct LSP connectivity between all PEs.

C. L2VPN by encapsulating multiple frame formats with interworking.

D. L3VPN using a hierarchical topology of N-PEs and U-PEs.

Correct Answer: D

QUESTION 7

```
PE1                                      PE2
ip vrf CE1                               ip vrf CE2
  rd 101:1                                 rd 202:2
  route-target export 100:1                route-target export 200:2
  route-target import 200:2                route-target import 100:1

PE3                                      PE4
ip vrf CE3                               ip vrf CE4
  rd 303:3                                 rd 404:4
  route-target export 300:3                route-target export 400:4
  route-target import 400:4                route-target import 300:3
```

Refer to the exhibit. A network engineer has been called to configure the four PE devices in order to enable full communication among the four CE devices connected to them. While starting to configure, he experienced a connectivity issue. Which two tasks should the engineer perform in order to begin the process correctly? (Choose two.)

A. Configure PE3 to export route-targets 100:1 and 200:2.

B. Configure PE3 to import route-targets 100:1 and 200:2.

C. Configure PE4 to import route-targets 101:1 and 202:2.

D. Configure PE2 to export route-targets 300:3 and 400:4.

E. Configure PE1 to import route-targets 300:3 and 400:4.

Correct Answer: AB

QUESTION 8

What must match in the EVPN and L2VPN configuration mode when configuring EVPN native in a router?

A. interface

B. address family

C. bridge domain

D. EVI

Correct Answer: D

Reference: https://www.cisco.com/c/en/us/td/docs/routers/asr9000/software/asr9k-r6-2/lxvpn/configuration/guide/b-l2vpn-cg-asr9000-62x/b-l2vpn-cg-asr9000-62x_chapter_01011.html

QUESTION 9

DRAG DROP

```
interface GigabitEthernet0/1
switchport trunk allowed vlan none
switchport mode trunk
service instance 2 ethernet
  encapsulation dot1q 10
   xconnect 192.168.2.2 22 encapsulation mpls
```

Refer to the exhibit. Drag and drop the EVC configuration items from the left onto the correct descriptions on the right.

Select and Place:

switchport mode trunk	It denies globally defined VLANs from egressing and ingressing the port.
service instance 2 ethernet	It allows the port to operate as an 802.1q trunk.
switchport trunk allowed vlan none	It classifies traffic under a defined process.
xconnect 192.168.2.2 22 encapsulation mpls	It allows the port to process VLAN 10 traffic in Service Instance 2.
encapsulation dot1q 10	It defines the pseudowire parameters.

Correct Answer:

	switchport trunk allowed vlan none
	switchport mode trunk
	service instance 2 ethernet
	encapsulation dot1q 10
	xconnect 192.168.2.2 22 encapsulation mpls

QUESTION 10

```
PE1                              PE2
ip vrf CE1                       ip vrf CE2
    rd 111:1                         rd 112:2
    route-target export 100:1        route-target export 200:2
    route-target import 200:2        route-target import 100:1
                                     route-target import 300:3

PE3
ip vrf Internet
    rd 333:3
    route-target export 300:3
    route-target import 100:1
    route-target import 200:2
```

Refer to the exhibit. PE1 and PE2 are exchanging VPNv4 routes for CE1 and CE2, and PE3 contains the default route to the internet. If the three devices are operating normally, which two conclusions describe this configuration? (Choose two.)

A. The CE1 and CE2 VRFs can exchange routes only between their respective VRFs on PE1 and PE2.

B. All three routers must be running a distance-vector routing protocol.

C. All three routers must be running MP-BGP.

D. The CE1 and CE2 VRFs can access the default route provided by the Internet VRF.

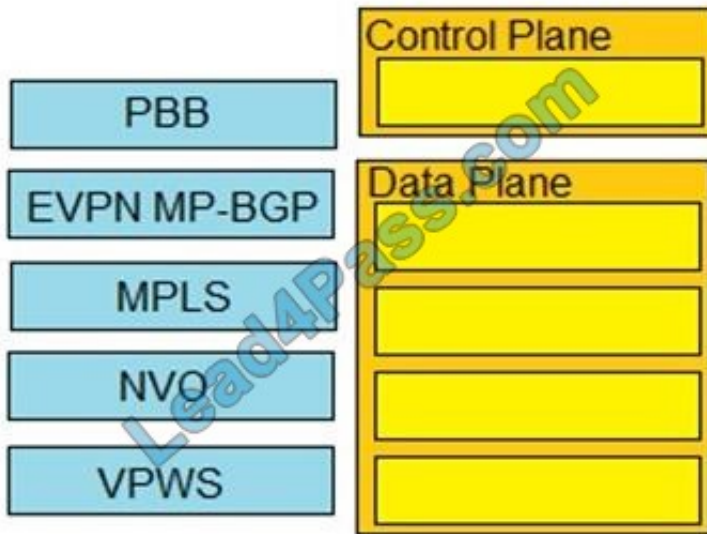E. Only the CE2 VRF can access the default route provided by the Internet VRF.

Correct Answer: AC
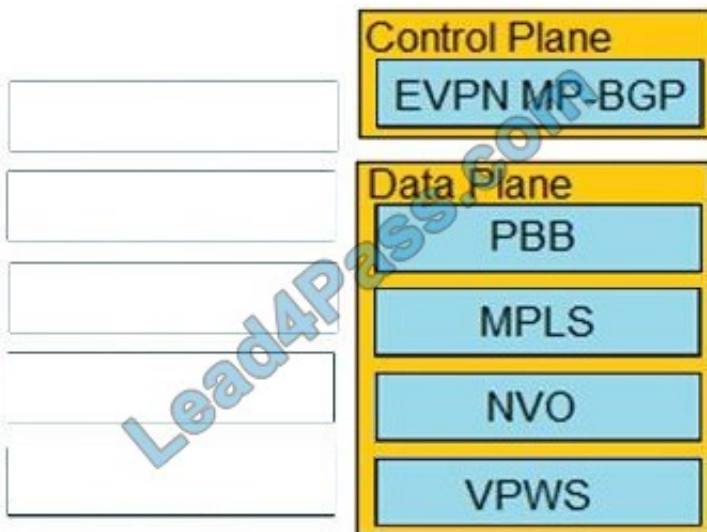
QUESTION 11

DRAG DROP

Drag and drop the EVPN components from the left onto the correct planes on the right.

Select and Place:

Correct Answer:

Reference: https://www.cisco.com/c/dam/m/en_us/network-intelligence/service-provider/digital-transformation/knowledge-network-webinars/pdfs/0420-epn-ckn.pdf slide 8

QUESTION 12

```
ip vrf mvpn-intranet
  rd 12:1
  vpn id 12:1
  route-target import 12:2
  route-target export 12:1
  mdt default mpls mldp 192.168.1.2
  exit
ip multicast-routing vrf mvpn-intranet
```

Refer to the exhibit. Which statement about this configuration is true?

A. Router 1 will accept multicast routes with a route-target of 12:1.

B. 192.168.1.2 must be reachable by all routers participating in the mvpn-intranet MVRF.

C. Router 1 has statically defined thresholds for data MDT.

D. The MVRF must be configured on each router on the customer and service provider networks.

Correct Answer: A

QUESTION 13

What is the primary function of a VRF on a router?

A. It enables the router to support multiple separate routing tables, which allows the device to handle overlapping IP addresses.

B. It enables a router to run BGP and a distance vector routing protocol at the same time, which allows it to serve as a VPN endpoint between remote sites.

C. It enables a router to configure VLANs locally, which provides segregation between networks.

D. It enables the router to provide faster switching through the network by using labels to identify the input and output interfaces for neighbor routers.

Correct Answer: A

QUESTION 14

```
PE(config-router-af)#neighbor 10.10.10.1 local-as 100
PE(config-router-af)#neighbor 10.10.10.1 remote-as 65000
PE(config-router-af)#neighbor 10.10.10.1 as-override

PE#show ip bgp vpnv4 vrf BLUE 10.10.10.10/32
BGP routing table entry for 111:1234:10.10.10.10/32, version 624
Paths: (1 available, best #2, table BLUE)
  Advertised to update-groups:
      38        39
  65000 65100 65222 65000
    192.168.40.1 (metric 31410) from 192.168.10.1 (192.168.10.1)
      Origin incomplete, localpref 100, valid, internal, best
      Extended Community:  RT:111:1234
      Originator: 192.168.20.1, Cluster list: 192.168.30.1
      mpls labels in/out nolabel/1146
```

Refer to the exhibit. While provisioning a new BGP session between the PE and CE router, you issue the as-override command. Which statement describes modification of the prefix before being sent to the CE router (10.10.10.1)?

A. The fourth AS changes, but no other autonomous systems change.

B. The first and fourth autonomous systems change.

C. The second and third autonomous systems change.

D. The first AS changes, but no other autonomous systems change.

Correct Answer: D

QUESTION 15

Which optional information can be included with an IPv6 ping to support the troubleshooting process?

A. IPv4 IP address

B. source MAC address

C. destination MAC address

D. IPv6 hostname

Correct Answer: D

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6/configuration/xe-3s/ipv6-xe-36s-book/ip6-mng-apps.html

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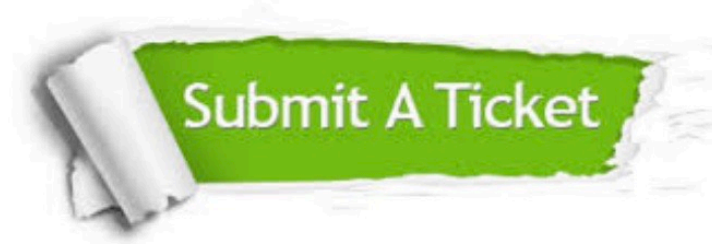
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