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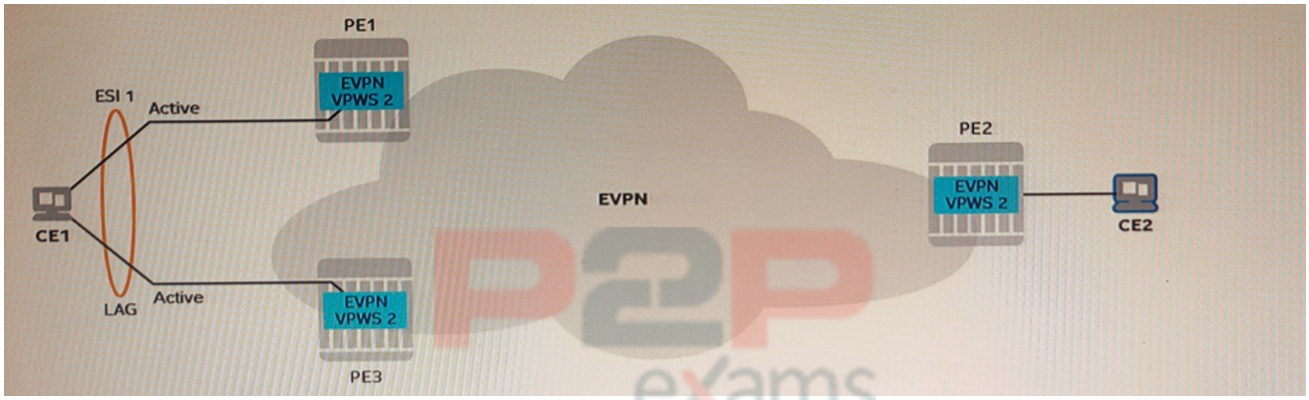
Question 1

Question Type: MultipleChoice

Examine the exhibit.



Which of the following configuration conditions is required for the proper operation of EVPN VPWS 2?

Options:

A- The local AC tag ID configured on PE2 must match the local AC tag ID configured on PEI.
B- The remote AC tag ID configured on PE2 must match the remote AC tag ID configured on PE3.
C- The local AC tag ID and the remote AC tag ID configured on PE2 must match.
D- The local AC tag ID configured on PEI must match the local AC tag ID configured on PE3.

Answer:

A

Explanation:

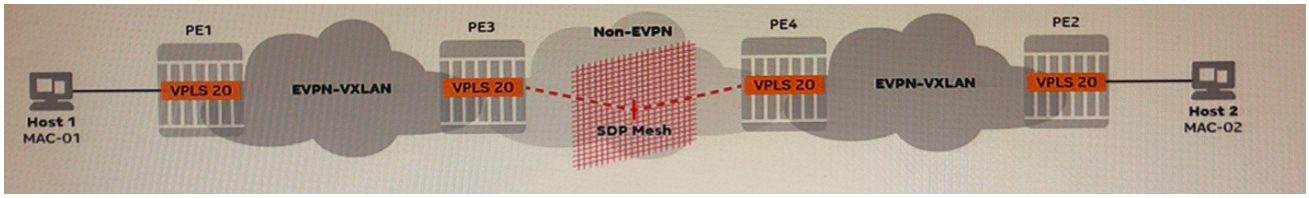
The local AC tag ID configured on PE2 must match the local AC tag ID configured on PE1. This ensures that the tag IDs are consistent across both ends of the VPWS service.The remote AC tag ID configured on PE2 does not need to match the remote AC tag ID configured on PE3, as long as they are unique within each PE1.

Verified Reference:Ethernet Virtual Private Networks (EVPNs)

Question 2

Question Type: MultipleChoice

Examine the exhibit.



Which option best statements about the operation of VPLS 20 is TRUE?

Options:

A- The flooding list maintained by PEI for VPLS 20 contains three entries: PE2, PE3, and PE4.
B- PE3 advertises an IMET route to PEI when its VPLS 20's mesh-SDP becomes operationally UP.
C- PE3 signals a service label to PE4 when its VPLS 20 is enabled and is bound to an operational SDP.
D- PEI advertises a MAC route for MAC-OI when its VPLS 2(Ys SAP becomes operationally UP.

Answer:

D

Explanation:

PE1 does not advertise a MAC route for MAC-01 when its VPLS 20's SAP becomes operationally UP.PE1 advertises an EVPN MAC/IP route for MAC-01, which includes the IP address of Host 1 and the ESI of the Ethernet segment1.

Verified Reference:Ethernet Virtual Private Networks (EVPNs)

Question 3

Question Type: MultipleChoice

Which of the following statements about the EVPN route types used to support multi-homing is TRUE?

Options:

A- Ethernet segment (ES) routes indicate the redundancy mode of the Ethernet segment.

B- ES routes provide the ESI label required to support the split-horizon mechanism.
C- Auto-discovery (A-D) routes are imported by all PES participating in the EVPN service.
D- A-D per Ethernet segment routes indicate the desired designated forwarder election algorithm.

Answer:

A

Explanation:

Ethernet segment (ES) routes indicate the redundancy mode of the Ethernet segment.The redundancy mode can be either single-active or all-active, and it determines how traffic is forwarded to and from a multi-homed CE1.

Verified Reference:Ethernet Virtual Private Networks (EVPNs)

Question 4

Question Type: MultipleChoice

Examine the exhibit.

Which of the following actions is performed by PEI after it receives a BUM packet from CEI?

Options:

A- PEI does not flood the packet because PEI is acting as non-designated forwarder (non-DF) for VPLS 10.
B- PEI sends the packet to PE2 but not to PE3 because PE3 is connected to the originating ES.
C- PEI sends the packet to PE2 and to PE3. An ESI label is included only in the packet sent to PE2.
D- PEI sends the packet to PE2 and to PE3. An ESI label is included only in the packet sent to PE3.

Answer:

C

Explanation:

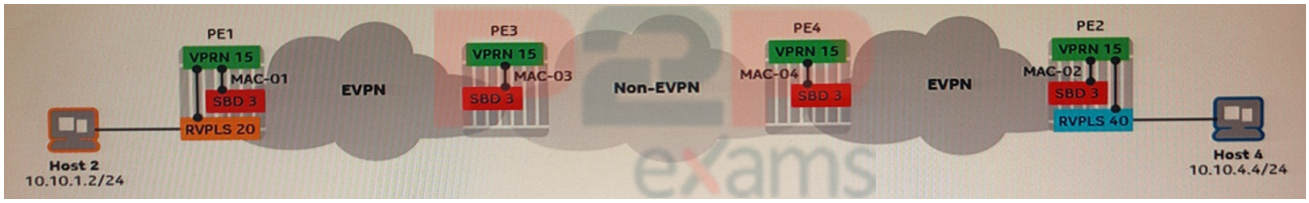
PE1 sends the packet to PE2 and to PE3. An ESI label is included only in the packet sent to PE2. The ESI label is used to implement the split-horizon mechanism and prevent traffic duplication. The packet sent to PE3 does not need an ESI label because PE3 is connected to the same

Ethernet segment as PE1.

Question 5

Question Type: MultipleChoice

In the exhibit, the EVPN-IRB is configured to use the interface-ful unnumbered model. Which of the following statements regarding the route advertisement is FALSE?



Options:

A- PEI advertises an EVPN IP-Prefix route for prefix 10.10.1.0/24 to PE3. The BGP update includes MAC-OI as on overlay index.

B- PEI advertises an EVPN MAC route for MAC-OI to PE3. The BGP update includes the route-target value configured for VPRN 15.

C- PE3 advertises a VPN-IPv4 route for prefix 10.10.1.0/24 to PE4. The BGP update includes an MPLS service label.

D- PE4 advertises an EVPN IP-Prefix route for prefix 10.10.1.0/24 to PE2. The BGP update includes MAC-04 as an overlay index.

Answer:

D

Explanation:

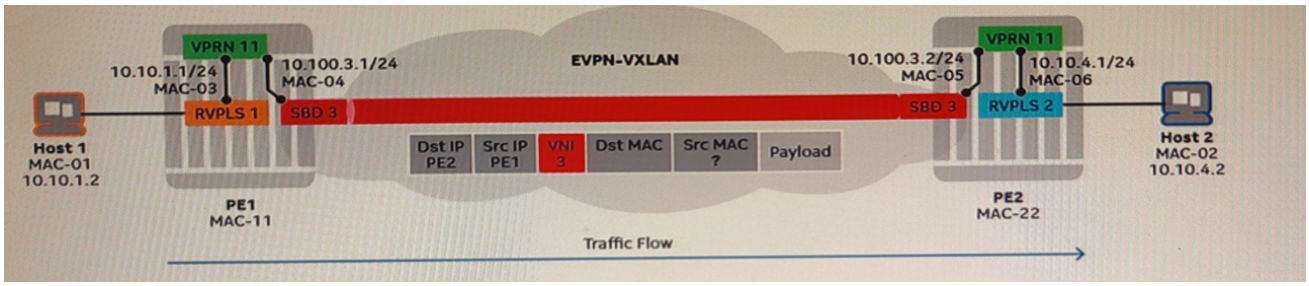
PE4 does not advertise an EVPN IP-Prefix route for prefix 10.10.1.0/24 to PE2.PE4 advertises a VPN-IPv4 route for prefix 10.10.1.0/24 to PE2, which includes the MPLS service label of VPRN 152.

Verified Reference:Nokia Ethernet Virtual Private Network Services Course | Nokia

Question 6

Question Type: MultipleChoice

In the exhibit, the interface-ful numbered model is used for the Layer-3 EVPN service. Which of the following is used as the source MAC address in the packets sent from PEI when forwarding customer traffic to Host 2?



Options:

A- MAC-OI
B- MAC-03
C- MAC-04
D- MAC-11

Answer:

A

Explanation:

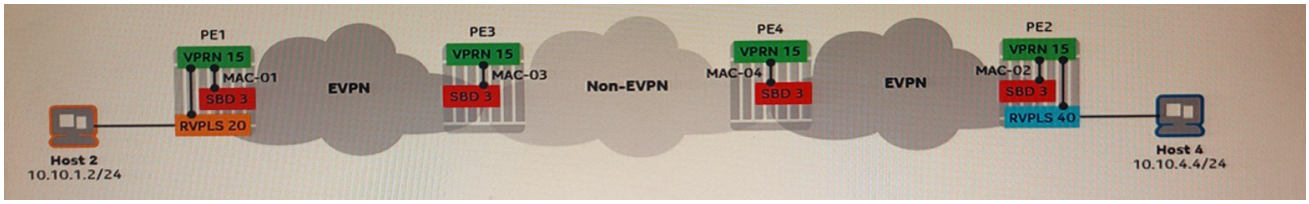
MAC-01 is used as the source MAC address in the packets sent from PE1 when forwarding customer traffic to Host 2.MAC-01 is the MAC address of the SBD IRB interface configured in VPRN 11 on PE12.

Verified Reference:Nokia Ethernet Virtual Private Network Services Course | Nokia

Question 7

Question Type: MultipleChoice

In the exhibit, the EVPN-IRB is using the interface-ful unnumbered model and is fully operational. Which of the following statements is FALSE?



Options:

A- An MP-BGP session that supports the advertisement of VPN-IPv4 routes is established between PE3 and PE4.

B- An MP-BGP session that supports the advertisement of EVPN routes is established between PEI and PE2.

C- On PE3, the routing table for VPRN 15 contains an entry for 10.10.1.0/24. This entry is resolved to MAC-OI as an overlay index.

D- On PE3, the routing table for VPRN 15 contains an entry for 10.10.4.0/24. This entry is resolved using a transport tunnel towards PE

Answer:

C

Explanation:

On PE3, the routing table for VPRN 15 does not contain an entry for 10.10.1.0/24.This entry is not needed because Host 1 is in the same subnet as the SBD IRB interface on PE3, and PE3 can reach Host 1 using its MAC address2.

Verified Reference:Nokia Ethernet Virtual Private Network Services Course | Nokia