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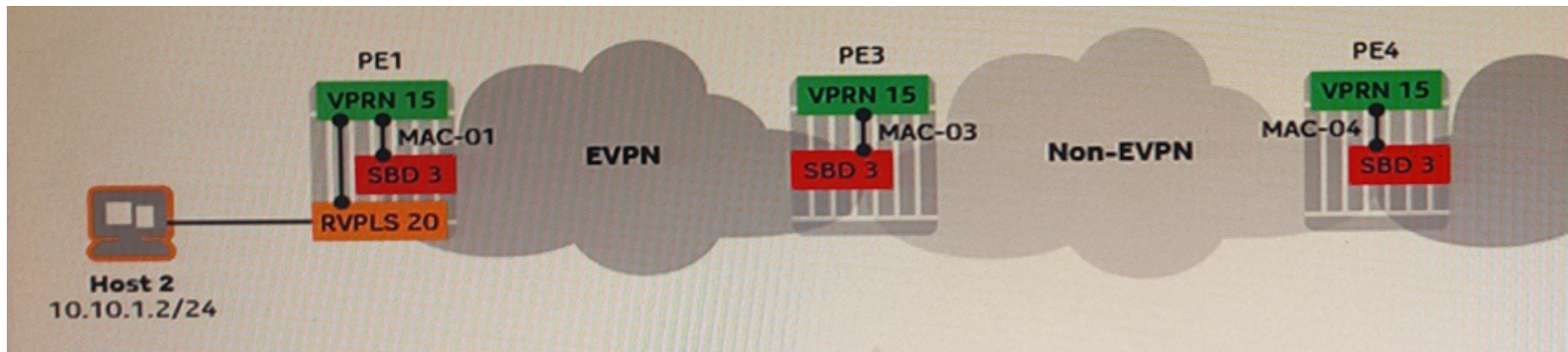
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Question 1

Question Type: MultipleChoice

In the exhibit, the EVPN-IRB is using the interface-full 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 PE1 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:

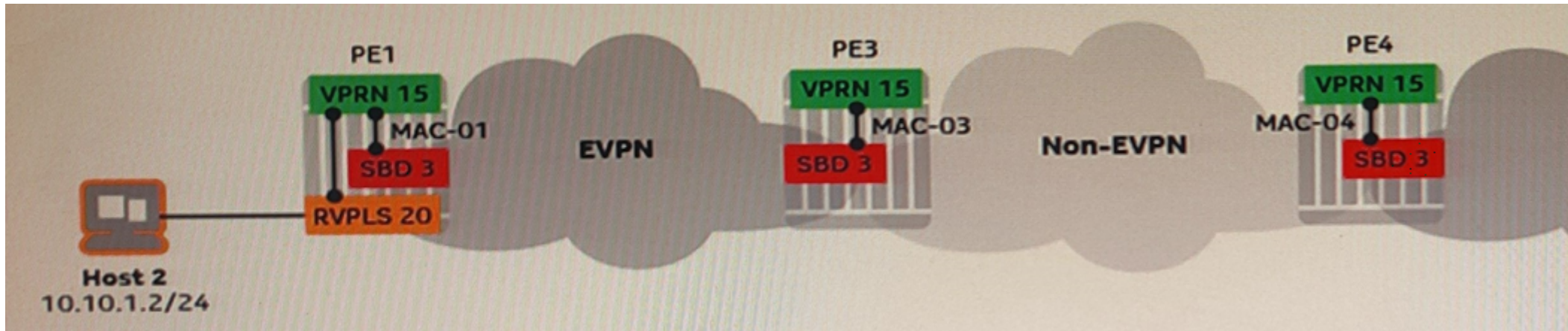
On PE3, the routing table for VPRN 15 does not contain an entry for 10.10.1.0/24. This entry is not needed because Host 1 is in the same subnet as the SBD IRB interface on PE3, and PE3 can reach Host 1 using its MAC address2.

Verified Reference:[Nokia Ethernet Virtual Private Network Services Course | Nokia](#)

Question 2

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-** PE1 advertises an EVPN IP-Prefix route for prefix 10.10.1.0/24 to PE3. The BGP update includes MAC-01 as an overlay index.
- B-** PE1 advertises an EVPN MAC route for MAC-01 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:

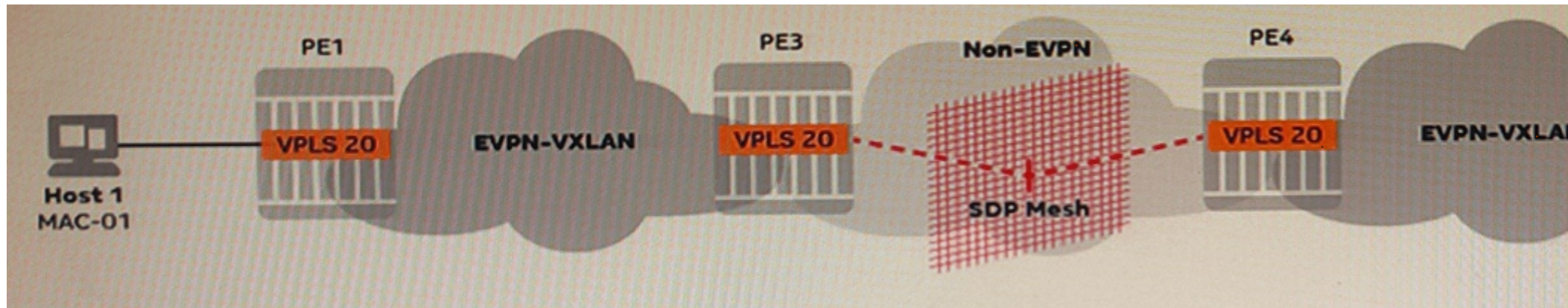
PE4 does not advertise an EVPN IP-Prefix route for prefix 10.10.1.0/24 to PE2. PE4 advertises a VPN-IPv4 route for prefix 10.10.1.0/24 to PE2, which includes the MPLS service label of VPRN 152.

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

Question 3

Question Type: MultipleChoice

Examine the exhibit.



Which of the following statements about the operation of VPLS 20 is TRUE?

Options:

- A- The flooding list maintained by PE1 for VPLS 20 contains three entries: PE2, PE3, and PE4.
- B- PE3 advertises an IMET route to PE1 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- PE1 advertises a MAC route for MAC-OI when its VPLS 20's SAP becomes operationally UP.

Answer:

D

Explanation:

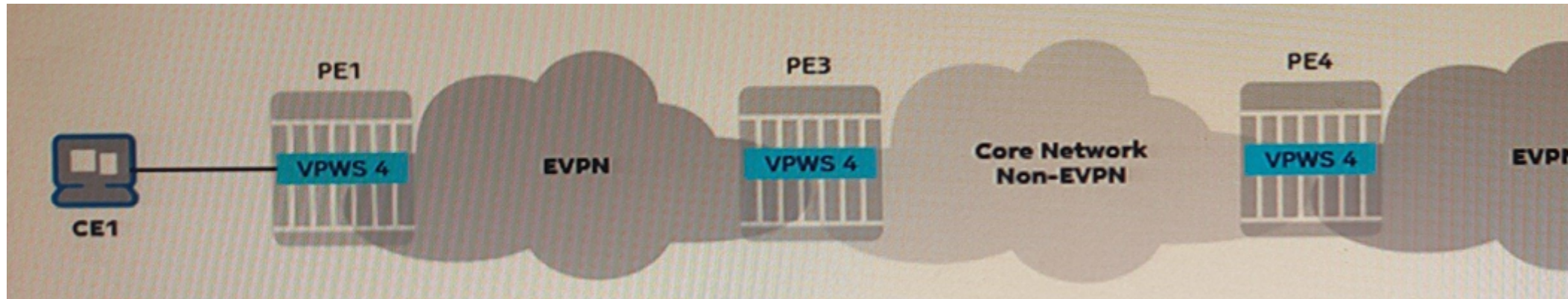
PE1 does not advertise a MAC route for MAC-01 when its VPLS 20's SAP becomes operationally UP. PE1 advertises an EVPN MAC/IP route for MAC-01, which includes the IP address of Host 1 and the ESI of the Ethernet segment1.

Verified Reference: [Ethernet Virtual Private Networks \(EVPNs\)](#)

Question 4

Question Type: MultipleChoice

Examine the exhibit.



Which of the following configuration is NOT required to enable Layer-2 communication between CE1 and CE2?

Options:

- A- Configure an MP-BGP session that allows the exchange of EVPN routes between PE1 and PE3.
- B- Configure an MP-BGP session that allows the exchange of IPv4 labeled routes between PE3 and PE4.
- C- Configure a service distribution point (SDP) on PE3 to reach PE4, and another SDP on PE4 to reach PE3.
- D- Configure a local attachment circuit (AC) and a remote AC for VPWS 4 on all PE routers.

Answer:

C

Explanation:

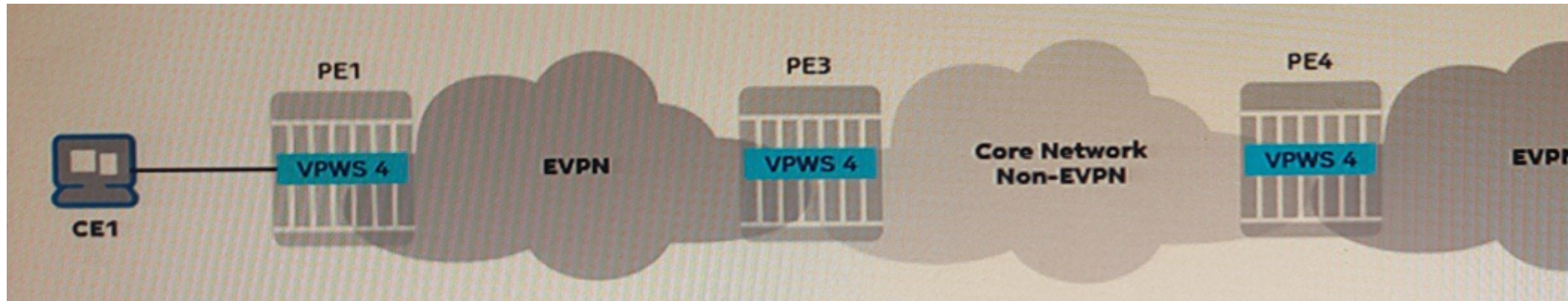
The advertisement of IP-Prefix routes is not required to enable Layer-2 communication between CE1 and CE2. IP-Prefix routes are used to enable Layer-3 communication between different subnets in an EVPN-IRB service. For Layer-2 communication, only MAC/IP routes are required.

Verified Reference: [Nokia Ethernet Virtual Private Network Services Course | Nokia](#)

Question 5

Question Type: MultipleChoice

In the exhibit, VPWS 4 enables communications between CE1 and CE2. Which of the following statements regarding the operation of VPWS 4 is FALSE?



Options:

- A- PE1 advertises an auto-discovery per EVPN instance (A-D per EVI) route to PE3 as soon as the SAP becomes operationally
- B- PE3 advertises an IMET route to PE1 as soon as VPWS 4 is administratively enabled.
- C- PE1 and PE3 exchange their service labels using A-D per EVI routes.
- D- PE3 and PE4 exchange their service labels over an established targeted LDP session.

Answer:

C

Explanation:

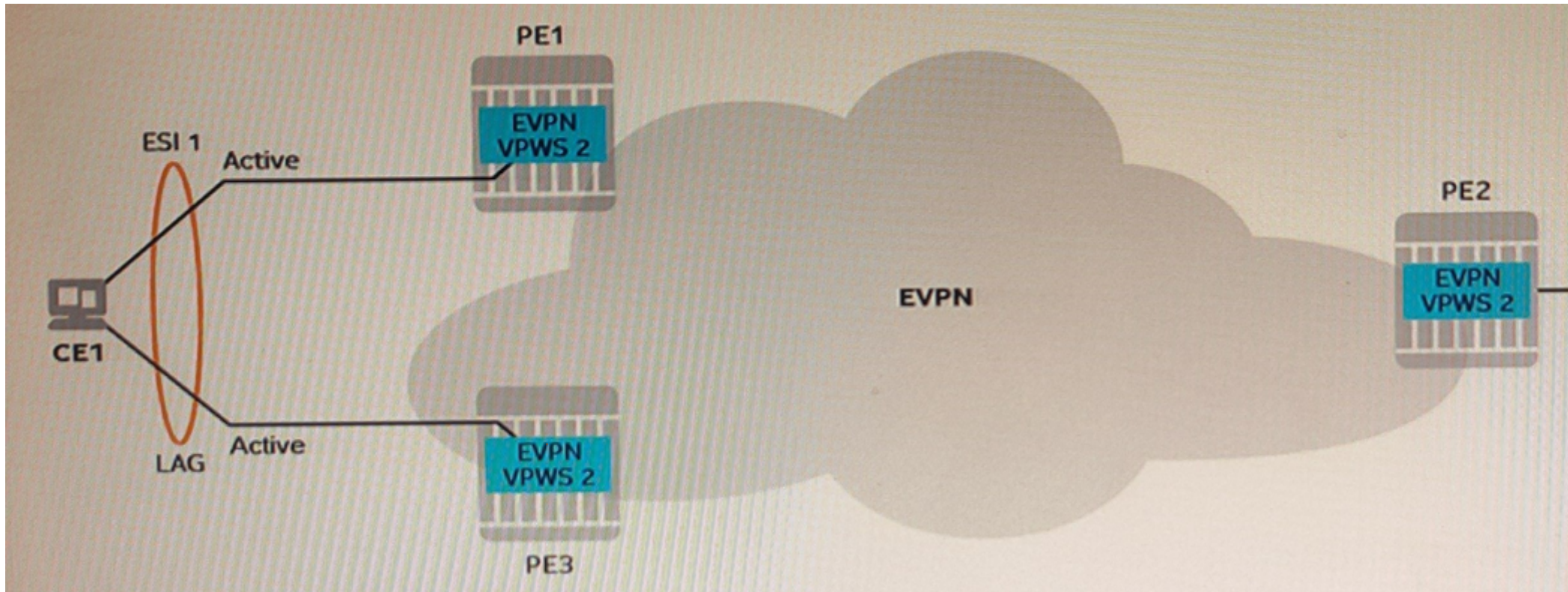
PE1 and PE3 do not exchange their service labels using A-D per EVI routes. PE1 and PE3 exchange their service labels using MAC routes, which are advertised when their local ACs become operationally UP1.

Verified Reference: Ethernet Virtual Private Networks (EVPNs)

Question 6

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 PE1.
- 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 PE1 must match the local AC tag ID configured on PE3.

Answer:

A

Explanation:

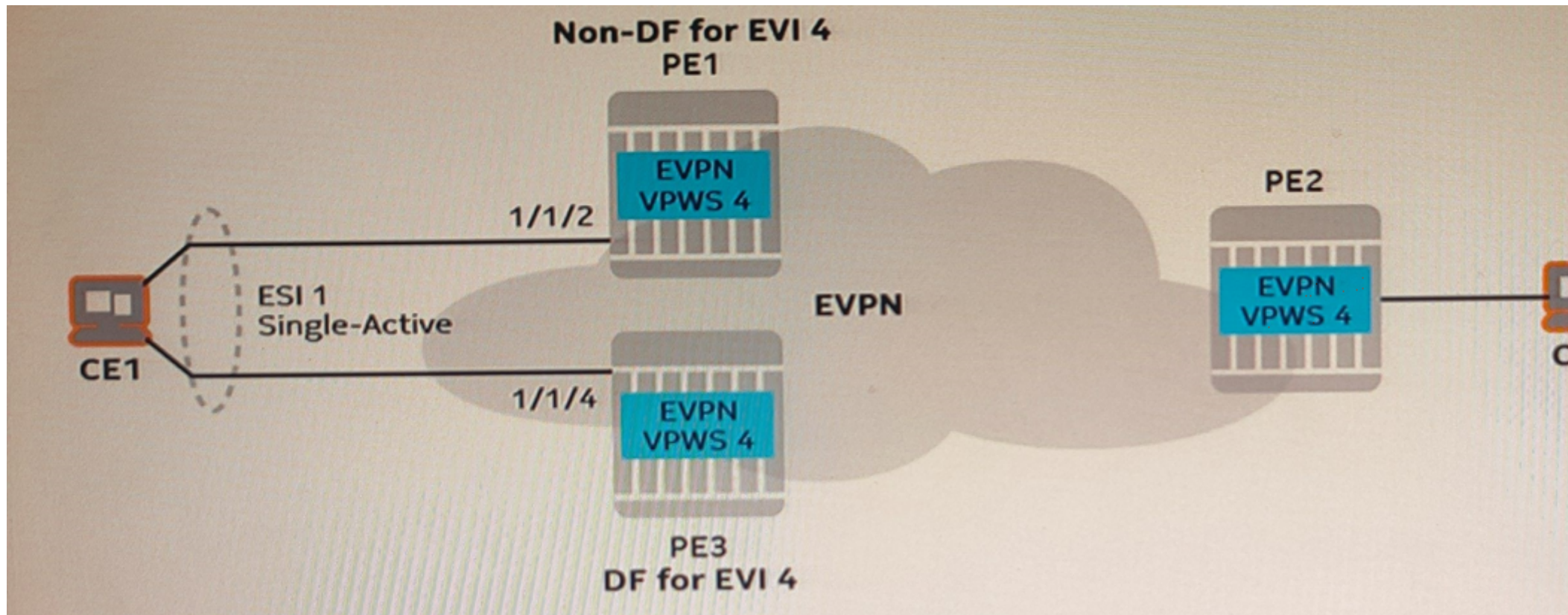
The local AC tag ID configured on PE2 must match the local AC tag ID configured on PE1. This ensures that the tag IDs are consistent across both ends of the VPWS service. The remote AC tag ID configured on PE2 does not need to match the remote AC tag ID configured on PE3, as long as they are unique within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

Verified Reference: Ethernet Virtual Private Networks (EVPNs)

Question 7

Question Type: MultipleChoice

Examine the exhibit.



Which of the following statements about the operation of EVPN VPWS 4 is FALSE?

Options:

A- PE1 brings the SAP in VPWS 4 operationally down.

- B-** PE3 sets the P flag in its advertised A-D per EVI route to 1.
- C-** PE2 receives a single A-D per EVI route. The route is originated from PE3.
- D-** PE2 receives two A-D per ES routes: one from PE1 and another from PE3.

Answer:

B

Explanation:

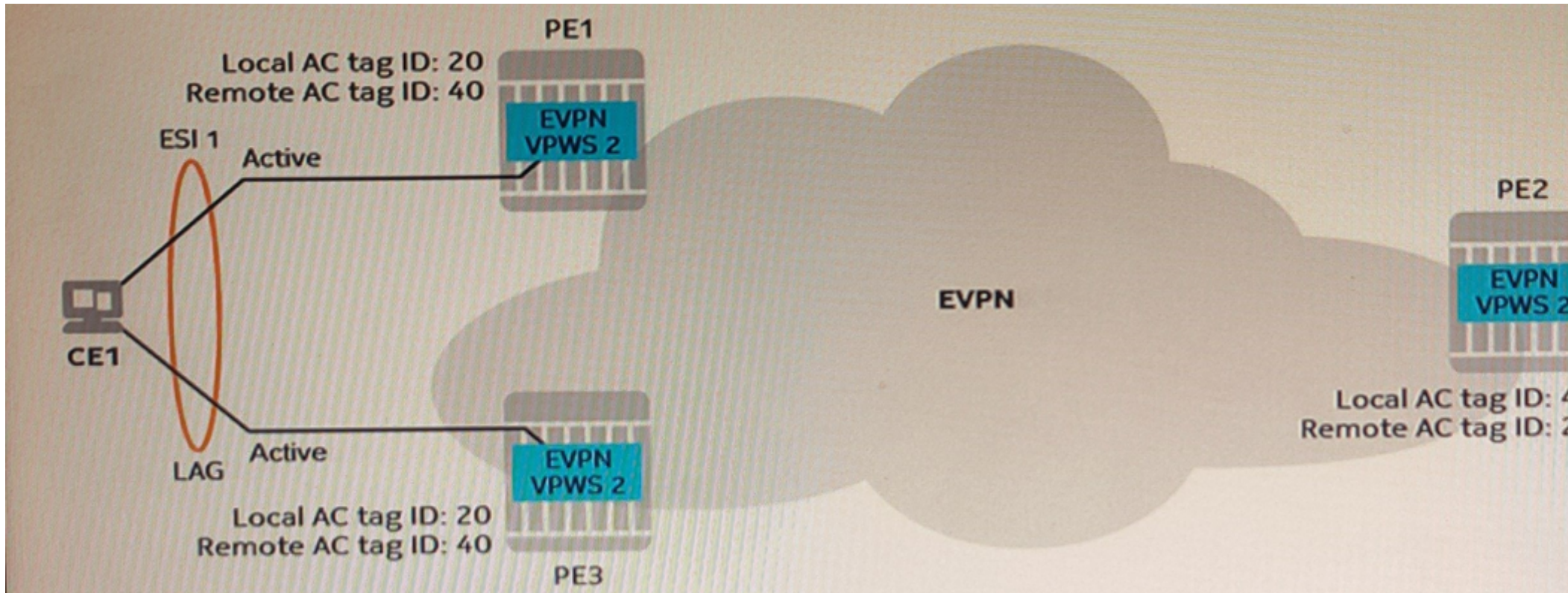
PE3 does not set the P flag in its advertised A-D per EVI route to 1. PE3 sets the P flag to 0, indicating that it is not the DF for EVI 20. PE1 sets the P flag to 1, indicating that it is the DF for EVI 201.

Verified Reference: [Ethernet Virtual Private Networks \(EVPNs\)](#)

Question 8

Question Type: MultipleChoice

Examine the exhibit.



Which of the following statements about the EVPN routes exchanged for EVPN VPWS 2 is TRUE?

Options:

- A- PE1 advertises an A-D per EVI route that includes a tag ID set to 40.
- B- PE1 advertises an A-D per EVI route that includes a non-zero Layer-2 MTLJ.

C- PE2 advertises an A-D per EVI route that includes a P flag set to I.

D- All PES advertise a MAC route that includes a non-zero MPLS label.

Answer:

D

Explanation:

All PEs do not advertise a MAC route that includes a non-zero MPLS label. Only PE1 advertises a MAC route that includes a non-zero MPLS label, which is used by PE2 to forward traffic to PE1. PE2 and PE3 do not advertise any MAC routes for VPWS 21.

Verified Reference: [Ethernet Virtual Private Networks \(EVPNs\)](#)

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