



Free Questions for 4A0-115 by dumpshq

Shared by Pace on 12-12-2023

For More Free Questions and Preparation Resources

Check the Links on Last Page

Question 1

Question Type: MultipleChoice

Which of the following statements about the operation of a single-homed EVPN VPWS is TRUE?

Options:

- A- The same tag ID must be configured for the local attachment circuit (AC) at each PE.
- B- Each PE advertises a MAC route and an A-D per EVI route when its local AC becomes operationally UP.
- C- The advertised A-D per EVI route includes a non-zero tag ID and a non-zero MPLS label.
- D- Each PE verifies that the received tag ID matches its configured local AC tag ID.

Answer:

C

Explanation:

The advertised A-D per EVI route includes a non-zero tag ID and a zero MPLS label. The tag ID is used to identify the VPWS service, while the MPLS label is not used for single-homed VPWS services1.

Question 2

Question Type: MultipleChoice

Which of the following statements about the EVPN Layer 2 Attributes extended community is FALSE?

Options:

- A-** It is advertised with the auto-discovery per EVPN instance (A-D per EVI) route.
- B-** It is applicable to EVPN VPLS services.
- C-** It specifies the service maximum transmission unit (MTU).
- D-** It specifies a P flag that indicates whether the advertising PE is a primary PE.

Answer:

B

Explanation:

The EVPN Layer 2 Attributes extended community is not applicable to EVPN VPLS services. It is applicable to EVPN VPWS services, where it carries information such as the tag ID and the service MTU1.

Verified Reference: Ethernet Virtual Private Networks (EVPNs)

Question 3

Question Type: MultipleChoice

In the exhibit, PE2 is receiving an EVPN auto-discovery (A-D) route from PE1. Based on the output, which of the following statements is FALSE?

```
PE2# /show router bgp routes evpn auto-disc detail
```

```
-----  
-- Snip --  
-----
```

```
Original Attributes
```

```
Network          : n/a  
Nexthop          : 10.10.10.1  
Path Id         : None  
From            : 10.10.10.1  
Res. Nexthop    : 10.1.2.1  
Local Pref.     : 100  
Aggregator AS  : None  
Atomic Aggr.   : Not Atomic  
AIGP Metric     : None  
Connector       : None  
Community       : target:65530:1 12-attribute:MTU: 1514 C: 0 P: 1 B: 0  
                  bgp-tunnel-encap:MPLS  
Cluster         : No Cluster Members  
Originator Id   : None  
Flags           : Used Valid Best IGP  
Route Source    : Internal  
AS-Path         : No As-Path  
EVPN type       : AUTO-DISC  
ESI             : 00:00:00:00:00:00:01:00:00:01  
Tag             : 113  
Route Dist.     : 10.10.10.1:1  
MPLS Label      : LABEL 524283  
Route Tag       : 0  
Peer Router Id  : 10.10.10.1  
Interface Name  : toPE1  
Aggregator      : None  
MED             : None  
IGP Cost        : 10
```

```
-----  
-- Snip --  
-----
```

Options:

- A-** This route is an A-D per EVPN instance (A-D per EVI) route advertised by PE1 for a VPWS.
- B-** This route indicates that the EVPN service configured on PE1 is multi-homed.
- C-** This route indicates that the EVPN service is configured on PE1 with an EVPN instance (EVI) of 113.
- D-** This route indicates that the EVPN service is configured on PE1 with a service MTU of 1514.

Answer:

D

Explanation:

This route indicates that the EVPN service is configured on PE1 with a service MTU of 1500, not 1514. The service MTU is indicated by the MPLS label value in hexadecimal format. The MPLS label value of 0x05DC corresponds to a decimal value of 1500.

Question 4

Question Type: MultipleChoice

Which of the following EVPN routes are exchanged to support the operation of a multi-homed EVPN VPWS?

Options:

- A-** Auto-discovery per EVPN instance (A-D per EVI) routes and Auto-discovery per Ethernet segment (A-D per ES) routes only
- B-** MAC/IP routes, A-D per EVI routes, and A-D per ES routes
- C-** A-D per EVI routes, A-D per ES routes, and Ethernet segment (ES) routes
- D-** A-D per EVI routes and ES routes only

Answer:

C

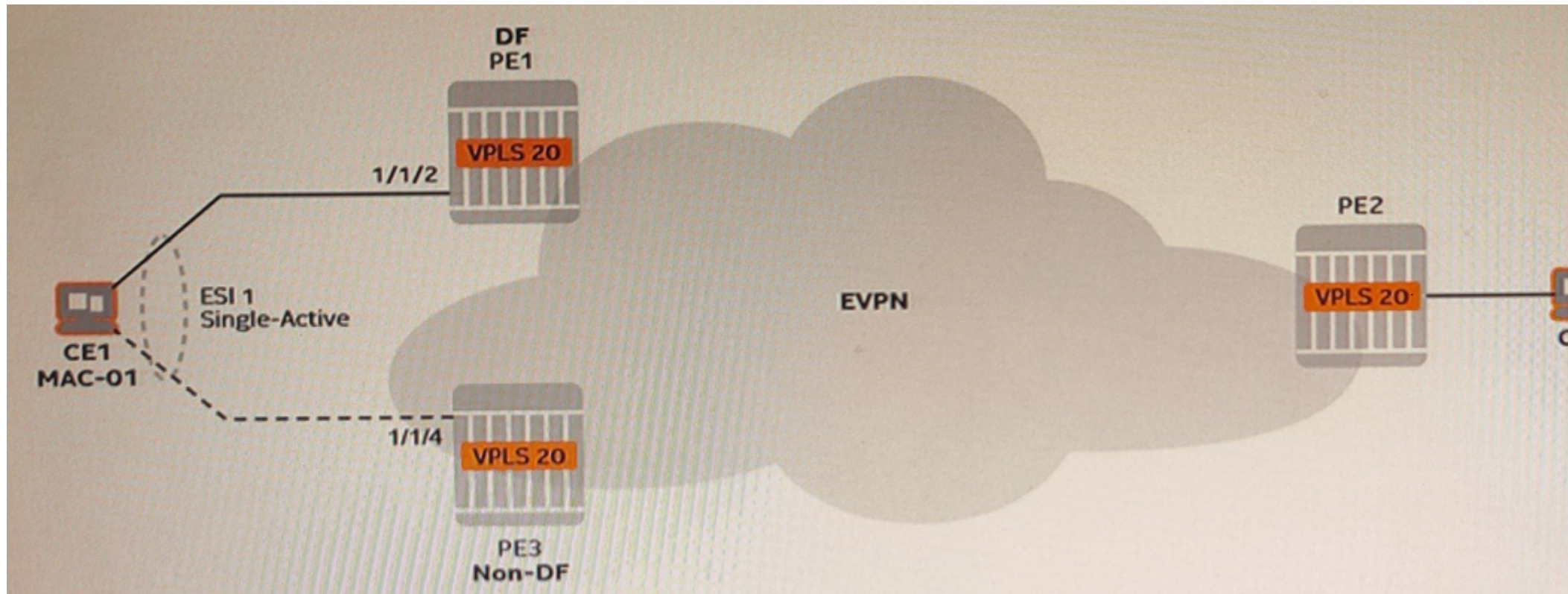
Explanation:

A-D per EVI routes, A-D per ES routes, and Ethernet segment (ES) routes are exchanged to support the operation of a multi-homed EVPN VPWS. These routes are used to discover all PEs associated with an Ethernet segment, indicate the redundancy mode of the Ethernet segment, and elect the designated forwarder for each service.

Question 5

Question Type: MultipleChoice

In the exhibit,



VPLS 20 is associated with a single-active Ethernet segment on routers PE1 and PE3. Which of the following statements is FALSE?

Options:

- A- PE1 advertises an A-D per ES route which indicates that ESI 1 is operating in a single-active redundancy mode.
- B- PE1 advertises an A-D per EVI route which includes a P flag set to I to indicate that PE1 is the DF for EVI 20.
- C- PE3 advertises an A-D per ES route which indicates that ESI I is operating in a single-active redundancy mode.
- D- When PE1 learns MAC-01, it advertises a MAC/IP route which indicates that MAC-OI is associated with ESI I.

Answer:

D

Explanation:

When PE1 learns MAC-01, it advertises a MAC/IP route which indicates that MAC-01 is associated with ESI 1. This route is used by remote PEs to populate their FDBs with MAC-01 and its corresponding ESI.

Question 6

Question Type: MultipleChoice

Examine the exhibit.

Which of the following actions is performed by PE1 after it receives a BUM packet from CE1?

Options:

- A-** PE1 does not flood the packet because PE1 is acting as non-designated forwarder (non-DF) for VPLS 10.
- B-** PE1 sends the packet to PE2 but not to PE3 because PE3 is connected to the originating ES.
- C-** PE1 sends the packet to PE2 and to PE3. An ESI label is included only in the packet sent to PE2.
- D-** PE1 sends the packet to PE2 and to PE3. An ESI label is included only in the packet sent to PE3.

Answer:

C

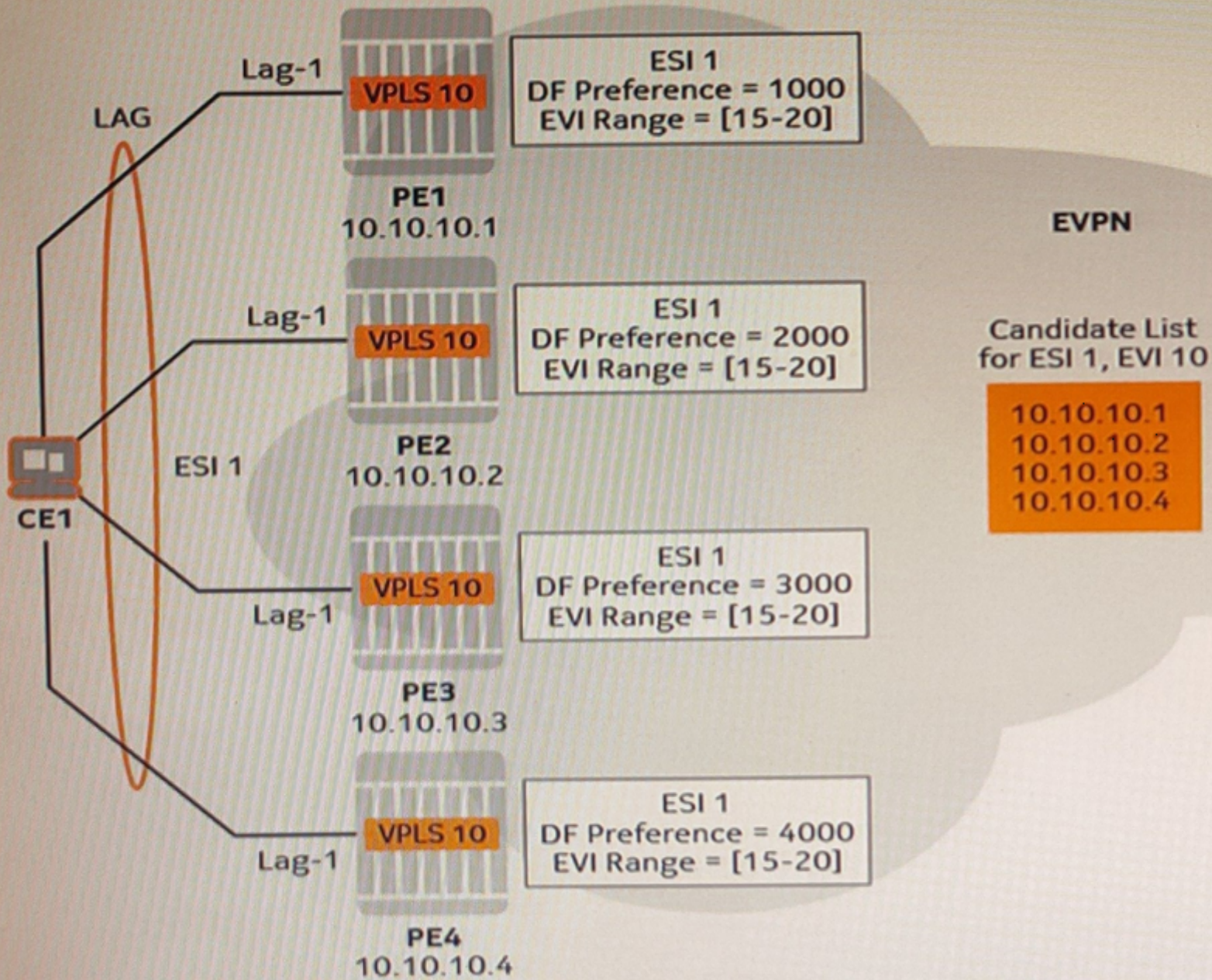
Explanation:

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 7

Question Type: MultipleChoice

In the exhibit, an EVI range is configured and the preference-based algorithm is used to elect the designated forwarder (DF) on ESI 1.
Which PE is elected as DF for VPLS 10?



Options:

A- PE1

B- PE2

C- PE3

D- PE4

Answer:

C

Explanation:

PE3 is elected as DF for VPLS 10. The preference-based algorithm uses the highest preference value of the PEs attached to the same Ethernet segment as the tie-breaker criterion. PE3 has the highest preference value among PE1, PE2, and PE3.

To Get Premium Files for 4A0-115 Visit

<https://www.p2pexams.com/products/4a0-115>

For More Free Questions Visit

<https://www.p2pexams.com/nokia/pdf/4a0-115>

