

4A0-108^{Q&As}

Alcatel-Lucent Multicast Protocols

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QUESTION 1

Which of the following configuration steps are mandatory for IPv4 PIM ASM to work? (Choose two)

- A. Configure PIM on core and source facing interfaces
- B. Configure PIM on access facing interfaces
- C. Configure RP statically or via BSR
- D. Create and apply register and join policies
- E. Define the rpf-table

Correct Answer: AC

QUESTION 2

How many bits of the IPv4 multicast address directly match bits in the multicast MAC address?

- A. 23
- B. 25
- C. 27
- D. 28

Correct Answer: A

QUESTION 3

Which of the following regarding multicast reliability is TRUE?

- A. TCP provides reliable transport for multicast traffic.
- B. UDP provides reliable transport for multicast traffic.
- C. Reliability may be added with a higher layer protocol such as RTP (Real Time Protocol).
- D. Multicast traffic does not need a reliable transport.

Correct Answer: C

QUESTION 4

Click the exhibit.

```
*A:PE# show router bgp routes mvpn-ipv4 type spmsi-ad detail
=====
BGP MVPN-IPv4 Routes
=====
Route Type       : Spmsi-Ad
Route Dist.     : 65100:1
Originator IP   : 1.1.1.1
Source IP       : 192.168.1.2
Group IP        : 239.1.1.1
Nexthop         : 1.1.1.1
From            : 1.1.1.1
Res. Nexthop    : 0.0.0.0
Local Pref.     : 100
Aggregator AS   : None
Atomic Aggr.    : Not Atomic
Community       : target:65100:1
Cluster         : No Cluster Members
Originator Id   : None
Flags           : Used valid Best IGP
Route Source    : Internal
AS-Path         : No AS-Path
VPRN Imported   : 1
Interface Name  : NotAvailable
Aggregator     : None
MED            : 0
Peer Router Id : 1.1.1.1

PMSI Tunnel Attribute :
Tunnel-type           : PIM-SSM Tree  Flags           : Leaf not required
MPLS Label            : 1.1.1.1
ROOT-Node             : 1.1.1.1  P-Group         : 232.10.10.0
=====
```

According to the display in the exhibit, which of the following statements is TRUE?

- A. The S-PMSI is instantiated by MPLS tunnels.
- B. The S-PMSI group address range is 232.10.10.0/24.
- C. 192.168.1.2 is the system IP address of the source PE.
- D. The customer is sending multicast traffic to group 239.1.1.1.

Correct Answer: D

QUESTION 5

Which of the following is NOT a benefit of anycast RP?

- A. It provides RP redundancy in a PIM SM network.
- B. It provides load balancing between multiple RPs in the network,
- C. It supports a different multicast topology than the unicast topology.
- D. It supports more optimal routing of the Shared Path Tree by allowing redundant RPs to be located closer to receivers.

Correct Answer: C

QUESTION 6

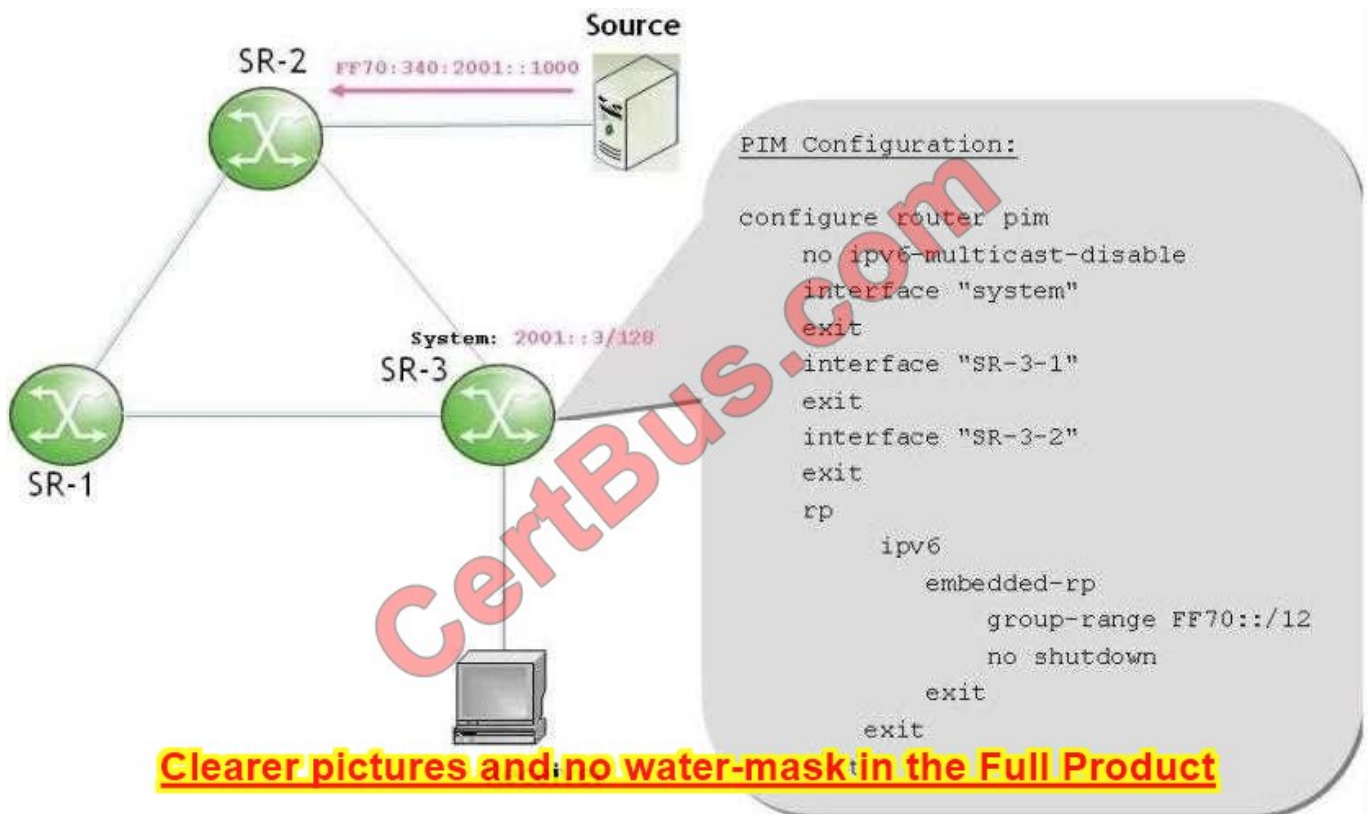
What is the multicast MAC address for IPv6 multicast address FF1E:: 1234:5678?

- A. 33:33:12:34:56:78
- B. 33:33:FF:34:56:78
- C. 33:33:FE:34:56:78
- D. 33:33:FF:FE:56:78

Correct Answer: A

QUESTION 7

Refer to the exhibit.



According to the PIM configuration on SR-3, can the receiver in the diagram receive multicast traffic from the source for group FF70:340:2001::1000? Assume all the other configurations are correct.

- A. Yes. The configuration of PIM is correct and the receiver should get traffic from the source
- B. No. The configuration of PIM is no problem, but the scope of the group address used to send traffic is wrong
- C. No. As the "rpf6-table" command is missing
- D. No. As the embedded-rp group-range is wrong

Correct Answer: B

QUESTION 8

Why should the anycast RP address not be the system address of a router?

- A. 7750 SR configuration does not permit using the system address for an anycast address
- B. The system address of a router has to be a unique address within a domain while the anycast address is configured on multiple routers within the domain
- C. PIM will not be able to establish its signaling sessions if the anycast address uses the system address
- D. None of the above

Correct Answer: B

QUESTION 9

In Draft Rosen, a PE router encapsulates customer multicast packets into provider packets. What source IP address is used for the provider packets?

- A. The system IP address of the originating PE router.
- B. The source IP address of the customer packet.
- C. The outgoing interface IP address of the originating PE router.
- D. The source IP address specified in the MVPN configuration.

Correct Answer: A

QUESTION 10

For a BGP A-D signaled MVPN, which of the following situations requires the Source Active A-D route?

- A. Provider network using PIM ASM.
- B. Provider network using PIM SSM.
- C. Customer network using PIM ASM.
- D. Customer network using PIM SSM.

Correct Answer: C

QUESTION 11

Click the exhibit.


```
*A:PE# show router bgp routes mvpn-ipv4 type spmsi-ad detail
=====
BGP MVPN-IPv4 Routes
=====
Route Type           : Spmsi-Ad
Route Dist.          : 65100:1
Originator IP        : 1.1.1.1
Source IP             : 192.168.1.2
Group IP              : 239.1.1.1
Nexthop              : 1.1.1.1
From                  : 1.1.1.1
Res. Nexthop         : 0.0.0.0
Local Pref.          : 100
Aggregator AS        : None
Atomic Aggr.         : Not Atomic
Community             : target:65100:1
Cluster              : No Cluster Members
Originator Id        : None
Flags                 : Used valid Best IGP
Route Source          : Internal
AS-Path               : No AS-Path
VPRN Imported        : 1
Interface Name       : NotAvailable
Aggregator           : None
MED                   : 0
Peer Router Id       : 1.1.1.1

PMSI Tunnel Attribute :
Tunnel-type           : PIM-SSM Tree  Flags           : Leaf not required
MPLS Label            : 0
ROOT-NID
```

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According to the output shown, which of the following statements is FALSE?

- A. The S-PMSI is instantiated by GRE tunnels.
- B. The I-PMSI group address is 232.10.10.0.
- C. 192.168.1.2 is the IP address of the multicast source.
- D. The customer is sending multicast traffic to group 239.1.1.1.

Correct Answer: B

QUESTION 12

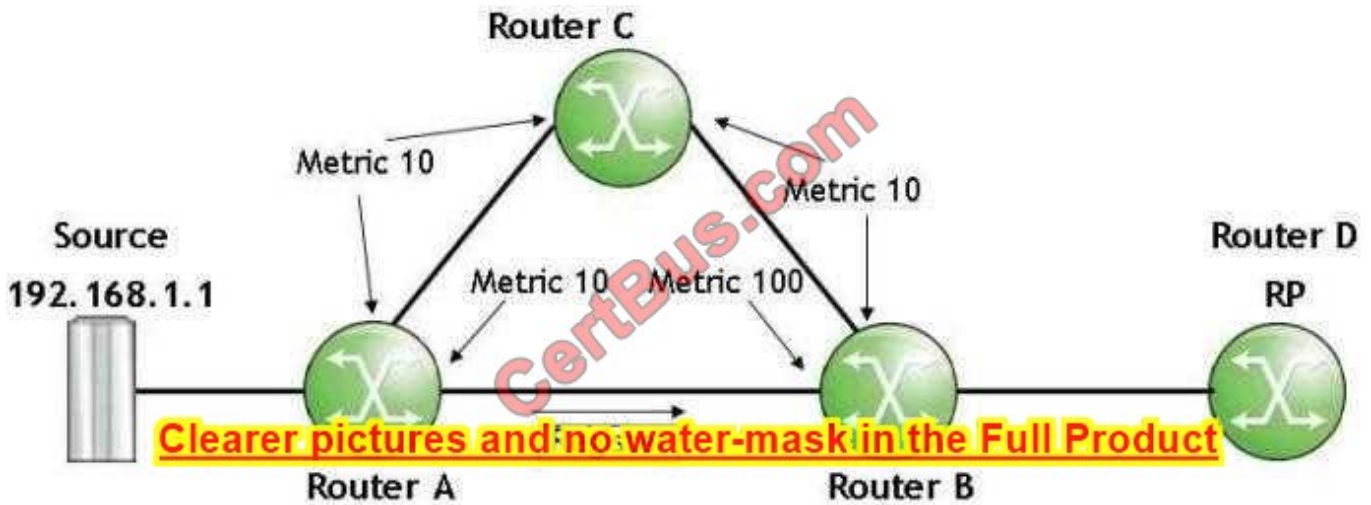
Which of the following is NOT a characteristic of Draft Rosen?

- A. PIM in the VRF.
- B. PIM in the service provider's core network.
- C. GRE encapsulation for multicast data traffic.
- D. MPLS encapsulation for multicast data traffic.

Correct Answer: D

QUESTION 13

Refer to the following exhibit.



The interfaces' IGP metric is as shown and PIM is using unicast table for RPF-check. What will happen when Router B receives the register message on its interface facing Router A?

- A. Discard the register message as RPF-check fails
- B. Forward the register message to Router D (RP) according to its routing table
- C. Forward the register message out of all the interfaces in its (, 239.1.1.1) entry's outgoing interface list
- D. Forward the register message out of all the interfaces in its (192.168.1.1, 239.1.1.1) entry's outgoing interface list

Correct Answer: B

QUESTION 14

Is the RP mandatory in an ASM network?

- A. Yes
- B. No
- C. Depends on whether there is an elected BSR. With an elected BSR, RP is not mandatory. Without an elected BSR, RP is mandatory
- D. In IPv4, RP is mandatory for ASM. In IPv6, it is not

Correct Answer: A

QUESTION 15

Refer to the following exhibit.



Assume all links have an equal metric in the IGP. Receiver 2 and Receiver 3 have joined the multicast group and the source is sending. Where will the Shared Path Tree have been created before switchover? (Choose two)

- A. Router G-E-C
- B. Router F-D-E-G
- C. Router F-D-E-C
- D. Router C-A
- E. Router F-D-B-A
- F. Router G-E-C-A
- G. No Shared Path Tree will have been created

Correct Answer: AC

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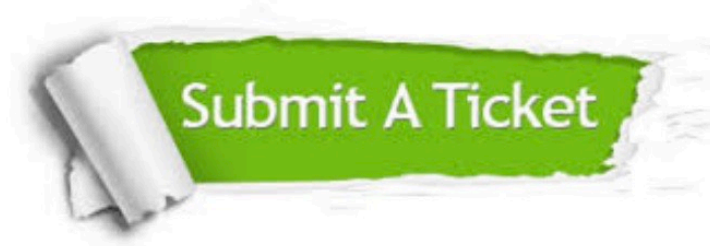
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