



4A0-108^{Q&As}

Alcatel-Lucent Multicast Protocols

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QUESTION 1

Which of the following is true regarding the IPv4 multicast address format?

- A. The first 3 bits of the address set to '\110\'
- B. A value between 223.0.0.0 and 239.255.255.255
- C. The first 4 bits of the address set to '\1111\'
- D. A subnet mask to indicate the network and host portion of the address
- E. The first 4 bits of the address set to '\1110\'

Correct Answer: E

QUESTION 2

What is the trigger for PIM Assert?

- A. When a router receives an IGMP Query from another device
- B. When a router receives a PIM Hello from another device
- C. When a router receives a BSM from a router with a better priority
- D. When a router receives a multicast data packet on an outgoing interface

Correct Answer: D

QUESTION 3

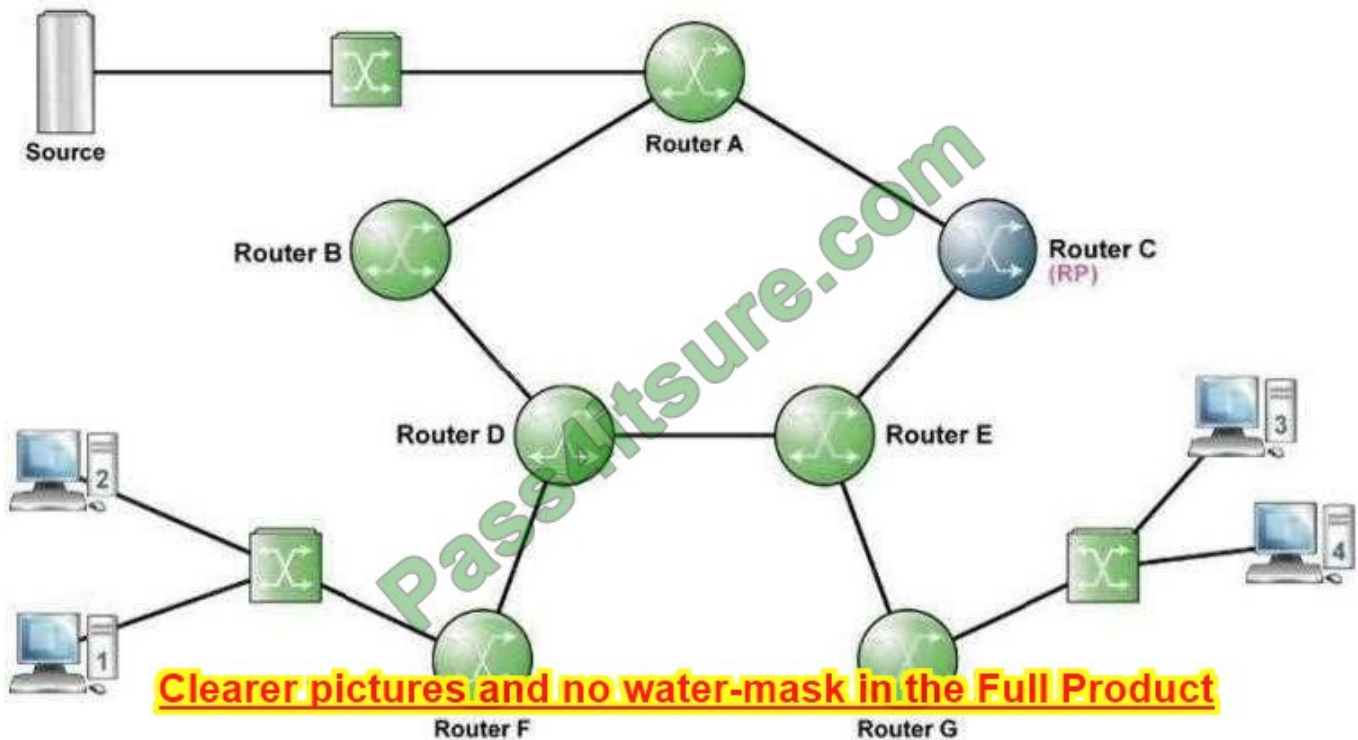
Why should the anycast RP address not be the system address of a router?

- 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 4

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 not sending. Where will the Shared Path Tree have been created? (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

QUESTION 5

Click the exhibit.



```
*A:PE>config>service>vpn# show router 100 mvpn
```

```
=====
MVPN 100 configuration data
=====
```

```
signaling          : Bgp          auto-discovery      : Default
UMH Selection      : Highest-IP  intersite-shared    : Enabled
vrf-import         : N/A
vrf-export         : N/A
vrf-target         : unicast
C-Mcast Import RT  : target:1.1.1.2:4

ipmsi              : pim-ssm 239.1.1.1  three-way-hello     : N/A
admin status       : Up               hello-multiplier    : N/A
hello-interval     : N/A              Improved Assert     : N/A
tracking support   : Disabled

spmsi              : pim-ssm 232.10.1.0/24
join-tlv-packing   : N/A              spmsi-auto-discover*: N/A
data-delay-interval: 3 seconds
enable-asm-mdt     : N/A
data-th
```

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Based on the display, which of the following regarding MVPN 100 is TRUE? A. BGP is used to signal customer multicast routing information, while PIM is used to discover PEs.

B. PIM is used to signal customer multicast routing information, while BGP is used to discover PEs.

C. BGP is used to signal customer multicast routing information and discover PEs.

D. PIM is used to signal customer multicast routing information and discover PEs.

Correct Answer: C

QUESTION 6

What is the reason why multicast MAC addresses do not provide a unique representation of IPv4 multicast addresses?

A. Multicast MAC addresses do provide a unique representation of IP multicast addresses if the administrator configures the translation correctly

B. The MAC layer does not provide a means for identifying multicast traffic

C. There are insufficient bits available in the multicast MAC address to provide for a one to one relationship to a multicast IP address

D. There are insufficient bits available in the multicast IP address to provide for a one to one relationship to a multicast MAC address

Correct Answer: C

QUESTION 7

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-NO
```

Clearer pictures and no water-mask in the Full Product

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 8

Which of the following events could trigger a PIM router sending an (S,G) Join message? (Choose three)

- A. Receiver performing IGMP version 3 (S, G) report
- B. Receiver performing enhanced IGMP version 2 signaling
- C. Router performing PIM Source Path Tree signaling
- D. Router performing translation to convert a standard IGMP (*, G) Join into a PIM (S, G) Join
- E. RP performing translation to convert a PIM (*, G) Join into a PIM (S, G) Join

Correct Answer: B



QUESTION 9

What multicast component has no function at all in a PIM SSM network?

- A. The PIM routing protocol
- B. SSM translation on access multicast router
- C. The RP
- D. IGMP snooping
- E. IGMP Querier

Correct Answer: C

QUESTION 10

What impact will an asymmetric IGP routing topology have on the PIM RPF check?

- A. The PIM RPF check may fail since traffic from the source may arrive on one interface while the IP route to the source may point to another interface on the PIM router
- B. PIM does not work in an asymmetric topology and therefore the RPF check will not be done
- C. There will be no impact since the shared and source path trees are built from the receiver to the source
- D. There is not enough information provided to answer the question

Correct Answer: C

QUESTION 11

The first actions of a router after enabling PIM on the interfaces will be:

- A. BSR elections followed by DR elections
- B. DR elections followed by PIM Hello messages
- C. DR elections followed by BSR elections
- D. BSR elections followed by PIM Hello messages
- E. PIM Hello messages followed by BSR elections
- F. PIM Hello messages followed by DR elections

Correct Answer: F

**QUESTION 12**

When a BSR message with a higher priority is seen, will a new BSR election occur?

- A. No, the new election only occurs when the elected BSR fails
- B. Yes, after a bootstrap message wait interval
- C. Yes, immediately
- D. Depends on the local configuration of whether to allow the new election or not

Correct Answer: C

QUESTION 13

What is the destination address for MLDv2 general query?

- A. FF02::1
- B. FF02::2
- C. FF02::16
- D. The multicast group address which the router assumes its hosts might have interest in.

Correct Answer: A

QUESTION 14

Which of the following regarding the BGP Shared Tree Join route is TRUE?

- A. The PE with a receiver for C-multicast group sends a BGP Shared Tree Join update to the PE attached to the C-RP.
- B. The PE with a receiver for C-multicast group sends a BGP Shared Tree Join update to the RP in the provider core network.
- C. The PE attached to C-RP sends a BGP Shared Tree Join update to the C-RP.
- D. The PE attached to C-RP sends a BGP Shared Tree Join update to the PE attached to the source.

Correct Answer: A

QUESTION 15

Which of the following is NOT an advantage of NG MVPN over Draft Rosen?

- A. MP-BGP is more scalable than PIM.
- B. Unicast and multicast traffic in the same VPRN service can use the same transport tunnel.



C. P routers in the core do not need to maintain any PIM group states.

D. An MPLS tunnel can be used instead of a GRE tunnel.

Correct Answer: D

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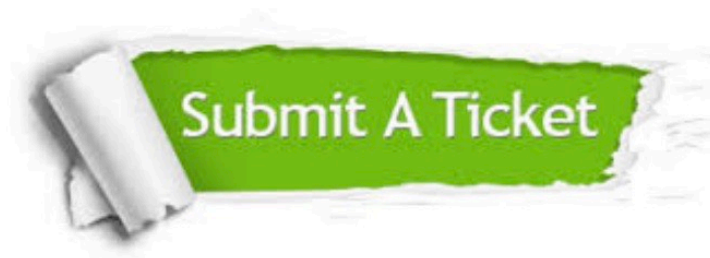
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