



**Free Questions for HC-224 by dumpshq**

**Shared by Calhoun on 12-12-2023**

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## Question 1

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**Question Type:** MultipleChoice

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RTA is a source's DR and RTB is an RP. A multicast source sends multicast data to RTA but RTB cannot find any information about the multicast source (registered by using the PIM Register message). Why? (Select 3 Answers)

### Options:

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- A- RTB has no unicast routes to RTA.
- B- RTA fails to learn RP information.
- C- RTA has no unicast routes to RTB.
- D- The RP learned by RTA is not RTB.

### Answer:

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B, C, D

## Question 2

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**Question Type:** MultipleChoice

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Which of the following routers have multicast routing entries even when there is no receiver on the network? (Select 2 Answers)

**Options:**

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- A- Source's DR
- B- Receiver router
- C- Intermediate router
- D- RP

**Answer:**

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A, D

## Question 3

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**Question Type:** MultipleChoice

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IGMP interface group report information

Ethernet6/1/1(40.1.1.1):

Total 1 IGMP Group reported

Group: 232.0.0.1

Uptime: 00:00:22

Expires: off

Last reporter: 40.1.1.3

Last-member-query-counter: 0

Last-member-query-timer-expiry: off

Group mode: include

Source list:

Source: 20.1.1.56

Uptime: 00:00:22

Expires: 00:05:08

Last-member-query-counter: 3

Last-member-query-timer-expiry: 00:00:01

Source: 20.1.1.57

Uptime.00:00:22

Expires: 00:00:17

Last-member-query-counter: 3

Last-member-query-timer-expiry: 00:00:01

The preceding information shows the entry status of an IGMP interface on Ethernet 6/1/1 on a router.

Assume IGMP sends the group-and-source-specific Query message. Which of the following statements is true?

### Options:

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- A-** IGMP respectively sends two messages: The source carried in one of the messages is 20.1.1.56 with the S flag bit not set; the source carried in the other message is 20.1.1.57, with the S flag bit set to 1.
- B-** IGMP respectively sends two messages: The source carried in one of the messages is 20.1.1.56 with the S flag bit set to 1; the source carried in the other message is 20.1.1.57, with the S flag bit not set.
- C-** IGMP sends one message carrying two sources 20.1.1.56 and 20.1.1.57, with the S flag bit set to 1.
- D-** IGMP sends one message carrying two sources 20.1.1.56 and 20.1.1.57, with the S flag bit not set.

### Answer:

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B

## Question 4

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### Question Type: MultipleChoice

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The preceding information is generated after a router receives a Report message from group 225.0.0.1 through Ethernet 6/1/0.

```
<Quidway>dis igmp group verbose
IGMP interface group report information
Ethernet6/1/0(10.1.1.1):
Total 1 IGMP Group reported
Group: 225.0.0.1
Uptime: 00:09:03
Expires: 00:02:09
Last reporter: 10.1.1.30
Last-member-query-counter: 0
Last-member-query-timer-expiry: off
Group mode: exclude
Version1-host-present-timer-expiry: off
Version2-host-present-timer-expiry: 00:02:09
```

Which type of Report message will not be processed by the router?

### Options:

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A- IS\_IN

**B-** ALLOW

**C-** BLOCK

**D-** TO\_IN

**Answer:**

---

C

## Question 5

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**Question Type:** MultipleChoice

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Which of the following statements about a multicast distribution tree are true? (Select 3 Answers)

**Options:**

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**A-** Multicast distribution trees are classified into two types: SPT and RPT.

**B-** The PIM-SM protocol can generate both RPTs and SPTs.

**C-** The PIM-SSM protocol can generate only SPTs.

**D-** The PIM-DM protocol can generate both RPTs and SPTs.

**Answer:**

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A, B, C

## Question 6

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**Question Type:** MultipleChoice

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Which of the following statements about RPs are true? (Select 3 Answers)

**Options:**

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- A-** Different group addresses on a PIM-SM network can correspond to different RPs.
- B-** An RP is the root of an RPT.
- C-** An RP is elected out of BSRs.
- D-** All routers on a PIM-SM network must know the location of RPs.

**Answer:**

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A, B, D



## Question 7

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**Question Type:** MultipleChoice

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What are the functions of an IGMPv2 Query message? (Select 3 Answers)

### Options:

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- A-** A router sends IGMPv2 Query messages to collect group memberships of receiver hosts.
- B-** A router sends IGMPv2 Query messages to elect a querier.
- C-** If a router can periodically send IGMPv2 Query messages, it indicates that the router runs properly.
- D-** Based on IGMPv2 Query messages, receiver hosts can obtain the address of a querier and unicast Report messages to the querier.

### Answer:

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A, B, C

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