



**Vendor:** Alcatel-Lucent

**Exam Code:** 4A0-108

**Exam Name:** Alcatel-Lucent Multicast Protocols

**Version:** DEMO

#### QUESTION 1

The use of PIM as a multicast routing protocol provides for which one of the following services?

- A. Authentication
- B. Guaranteed Delivery
- C. Device Security
- D. Preventing packet forwarding loops
- E. Preventing Denial of Service attacks

**Answer: D**

#### QUESTION 2

An end station receiving a broadcast packet will always process the data up to which layer of the OSI stack?

- A. Layer 1
- B. Layer 2
- C. Layer 3
- D. Layer 4
- E. Layer 7

**Answer: C**

#### QUESTION 3

Choose the answer that best completes the statement: An end station on an Ethernet network receiving an IP multicast packet will:

- A. Determine at Layer 1 if it is interested in the frame
- B. Determine at Layer 2 if it is interested in the frame
- C. Determine at Layer 2 after reading the protocol ID field if it is interested in the frame
- D. Determine at Layer 3 if it is interested in the frame
- E. Determine at Layer 7 if it is interested in the frame

**Answer: B**

#### QUESTION 4

Which of the following are characteristics of the one to many model of multicast data delivery? (Choose two)

- A. Receivers are generally unknown by the source
- B. Well suited for applications in which the receivers provide feedback to each other and the source
- C. There is a single data flow, from the source to the receivers
- D. All devices are potentially capable of generating multicast data
- E. Receivers are generally known by each other since any receiver may be a source

**Answer: AC**

**QUESTION 5**

The OUI field of the MAC address for IP multicast frames is:

- A. 00-01-5e
- B. 01-01-53
- C. 01-01-5e
- D. 01-00-5e
- E. 01-00-53

**Answer: D**

**QUESTION 6**

Which MAC address will multicast address 224.128.0.1 translate to?

- A. 01-00-5e-80-00-01
- B. 01-00-5e-22-41-40
- C. 01-00-5e-22-28-01
- D. 00-01-5e-80-00-01
- E. 01-00-5e-00-00-01
- F. 01-01-5e-22-28-01

**Answer: E**

**QUESTION 7**

Which two of the following addresses should not be used in a multicast network at the same time?

- A. 233.44.12.35
- B. 234.45.12.35
- C. 235.46.12.35
- D. 236.174.12.35
- E. 237.171.12.35

**Answer: CD**

**QUESTION 8**

Which MAC address will the IP multicast address 239.33.42.107 translate to?

- A. 01-00-5e-a1-2a-6b
- B. 01-00-5e-21-2a-6b
- C. 01-00-5e-21-2c-6c
- D. 00-01-5e-a1-2a-6b
- E. 00-01-5e-21-2a-6b
- F. 01-01-5e-a1-2a-6b

**Answer: B**

**QUESTION 9**

What is the range of addresses allocated for SSM?

- A. 239.0.0.0/8
- B. 233.x.y.0/24
- C. 224.0.0.0/24
- D. 232.0.0.0/8

**Answer: D**

**QUESTION 10**

How many bits of the IP multicast address are copied directly to the multicast MAC address?

- A. 27
- B. 5
- C. 28
- D. 9
- E. 23

**Answer: E**

**QUESTION 11**

Which protocol uses multicast address 224.0.0.22?:

- A. PIM version 1
- B. IGMP version 2
- C. OSPF
- D. IGMP version 3
- E. PIM version 2

**Answer: D**

**QUESTION 12**

Which two of the following addresses should not be used in a multicast network at the same time?

- A. 224.192.12.35
- B. 235.182.12.35
- C. 226.172.12.35
- D. 237.138.12.35
- E. 238.64.12.35

**Answer: AE**

**QUESTION 13**

If IGMP version 1 is in use, when is a Host Membership Report issued?

- A. The report is issued by the routers on the broadcast domain in response to a periodic query
- B. The report is issued by all members of the multicast group on the broadcast domain in

- response to a periodic query
- C. The report is issued by the receiver at startup of the multicast application.
  - D. The report is issued by one member of the group on the broadcast domain in response to a periodic query
  - E. (a) or (b)
  - F. (c) or (d)

**Answer: F**

#### **QUESTION 14**

When forwarding a multicast frame, the normal behavior for a LAN switch with IGMP snooping enabled, is to forward the frame based on the same rules as if it were:

- A. A unicast frame with a known destination in the forwarding table
- B. A unicast frame with an unknown destination in the forwarding table.
- C. A unicast frame with a known source in the forwarding table
- D. A unicast frame with an unknown source in the forwarding table

**Answer: A**

#### **QUESTION 15**

A multicast receiver has joined multicast group 224.0.0.1. By default, how often will it issue IGMP Host Membership Reports for this group?

- A. never
- B. 30 seconds
- C. 60 seconds
- D. 120 seconds
- E. 260 seconds
- F. Whenever it receives a Query

**Answer: A**

#### **QUESTION 16**

Who periodically sends IGMP Host Membership Queries?

- A. The router elected as Querier on a LAN
- B. The first host to expire their local suppression timer
- C. Only the multicast enabled hosts on a LAN
- D. All routers on a LAN
- E. All multicast enabled routers on a LAN

**Answer: A**

#### **QUESTION 17**

How does IGMP snooping eliminate multicast flooding on the LAN?

- A. The switch populates multicast source addresses into the forwarding table

- B. The switch acts as an IGMP proxy for the receiver
- C. The switch inspects IGMP activity between receivers and routers and populates the forwarding table with active multicast group addresses
- D. The switch inspects all multicast traffic between receivers and routers and populates the forwarding table with active multicast group addresses

**Answer: C**

#### QUESTION 18

Which of the following join multicast group 224.0.0.22 when IGMP version 3 is implemented?

- A. Router
- B. Switch
- C. Host
- D. Host and Router
- E. Host and Switch
- F. Router and Switch

**Answer: A**

#### QUESTION 19

Refer to the following configuration. Choose the statement below that is true.

```
A:RouterA>config>router>igmp# info
-----
interface "toRouterB"
  static
    group 239.1.1.1
    starg
  exit
exit
interface "AccessLAN1"
interface "toCustomerX"
exit
```

- A. Three interfaces of this router have been enabled for IGMP
- B. Only interface toRouterB has been enabled for IGMP
- C. All interfaces of this router have been enabled for IGMP
- D. There is insufficient information to answer

**Answer: A**

#### QUESTION 20

Which features were introduced in IGMP version 3? (Choose two)

- A. Leave group message
- B. Report suppression was eliminated
- C. IGMP snooping
- D. TTL of 1 for IGMP messages

E. A modified membership report to include Source address

**Answer:** BE

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