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**Alcatel-Lucent**

# 4A0-100

Alcatel-Lucent Scalable IP Networks

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Question #311

Which of the following is NOT a characteristic of the Internet protocol layer?

- A. It provides a unique addressing scheme to identify hosts.
- B. It provides a user interface to the network.
- C. It uses routing protocols for path determination.
- D. It provides end-to-end forwarding of datagrams.

**Answer: B**

Question #312

Which of the following is NOT a characteristic of the Internet?

- A. The Internet is a global and distributed network.
- B. The Internet is a network owned by Tier 1 service providers.
- C. The Internet is an open network of networks.
- D. The Internet is a network that is advertised across the globe.

**Answer: B**

Question #313

Which of the following is NOT a function of the control plane?

- A. Building routing tables using dynamic routing protocols.
- B. Building forwarding tables for the IOMs.
- C. Handling router configuration and management functions.
- D. Processing and forwarding user application traffic.

**Answer: D**

Question #314

Which of the following is NOT a valid log source in a Nokia 7750 SR?

- A. Main
- B. Security
- C. Syslog
- D. Debug

**Answer: C**

Question #315

What happens when a switch receives an Ethernet frame with unknown source and destination MAC addresses?

- A. The frame is silently discarded.
- B. The source MAC address is saved in the MAC FDB, and the frame is discarded.
- C. The source MAC address is saved in the MAC FDB, and the frame is flooded to all ports except the receiving port.
- D. The source and destination MAC addresses are saved in the MAC FDB, and the frame is flooded to all ports.

**Answer: C**

Question #316

A switch with the MAC FDB shown receives an Ethernet frame with source MAC address 00:00:8c:01:00:0a and destination MAC address 00:00:8c:01:00:0c. On which port is the frame forwarded?

### MAC FDB

1/1/1	00:00:8c:01:00:0a
1/1/2	00:00:8c:01:00:0b
1/1/3	00:00:8c:01:00:0c
1/1/4	00:00:8c:01:00:0d

- A. 1/1/1
- B. 1/1/2
- C. 1/1/3
- D. 1/1/4

**Answer: C**

### Question #317

If a 5-port LAG is configured with the option of "Eœport-threshold 2 action down", and dynamic-cost is enabled, what will happen if the total number of operational links in the LAG is 2?

- A. The LAG cost is equal to the link cost divided by 3.
- B. The LAG cost is equal to the link cost.
- C. The LAG is operationally down.
- D. The LAG cost is equal to the link cost divided by 5.

**Answer: C**

### Question #318

What type of MAC address is ff:ff:ff:ff:ff:ff?

- A. Unicast
- B. Multicast
- C. Broadcast
- D. Anycast

**Answer: C**

### Question #319

Which of the following statements about IP filters on a Nokia 7750 SR is TRUE?

- A. Multiple ingress IP filters can be used on a single interface.
- B. An IP filter can be applied to the management port.
- C. The same IP filter can be used on multiple interfaces.
- D. Only one IP filter can be defined per router.

**Answer: C**

### Question #320

Which of the following about the displayed IP filter is TRUE?

```

*A:SRC_R1# show filter ip 1
=====
IP Filter
=====
Filter Id      : 1                      Applied       : Yes
Scope         : Template                Def. Action   : Forward
Radius Ins Pt : n/a
Crctl. Ins Pt : n/a
Entries       : 1
Description   : new-filter
=====
Filter Match Criteria : IP
=====
Entry         : 1
Description   : (Not Specified)
Log Id       : n/a
Src. IP      : 1.2.3.0/24
Src. Port    : None
Dest. IP     : 2.3.4.0/24
Dest. Port   : None
Protocol     : 6                        Dscp         : Undefined
ICMP Type    : Undefined                ICMP Code    : Undefined
Fragment     : off                      Src Route Opt : Off
Sampling     : off                      Int. Sampling : On
IP-Option    : 0/0                      Multiple Option: Off
TCP-syn      : off                      TCP-ack      : Off
Option-pres  : off
Match action : Drop
Ing. Matches : 0 pkts
Egr. Matches : 0 pkts
=====

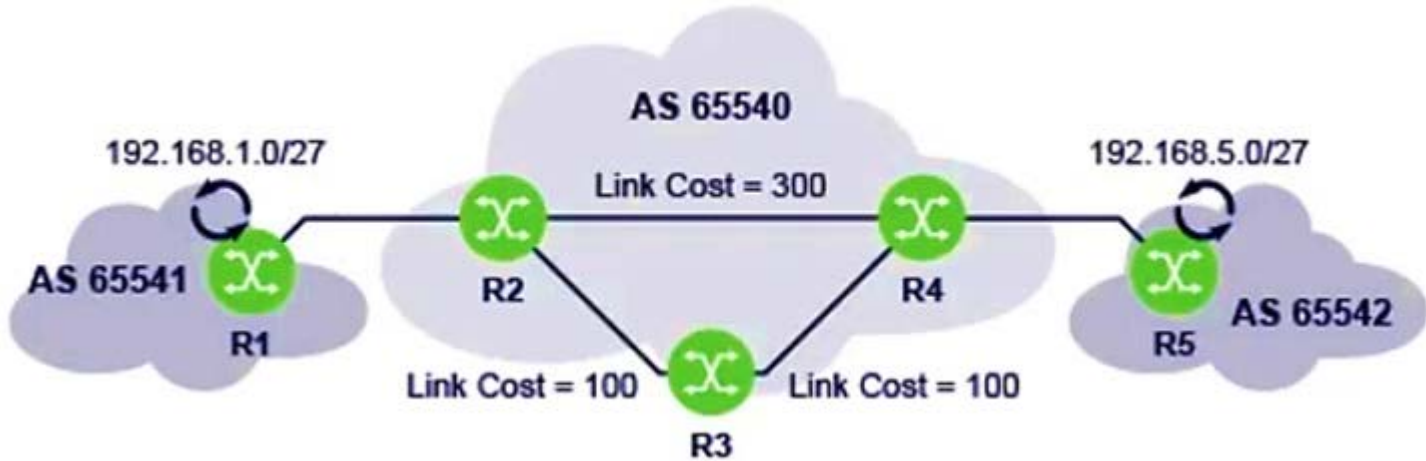
```

- A. TCP (protocol 6) traffic between addresses 1.2.3.0/24 and 2.3.4.0/24 is dropped.
- B. TCP (protocol 6) traffic from source address 1.2.3.0/24 to destination address 2.3.4.0/24 is forwarded.
- C. TCP (protocol 6) traffic from source address 2.3.4.0/24 to destination address 1.2.3.0/24 is dropped.
- D. TCP (protocol 6) traffic from source address 1.2.3.0/24 to destination address 2.3.4.0/24 is dropped.

Answer: A

Question #321

Which of the following routing protocols provides routing between routers R1 and R2?



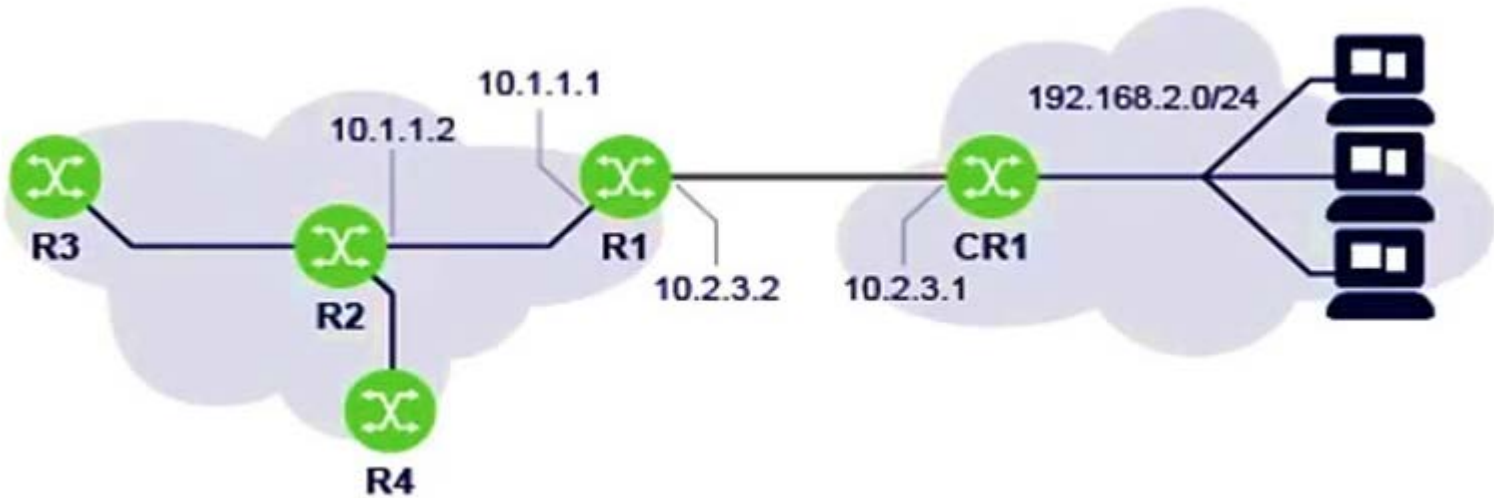
- A. BGP
- B. RIPv2
- C. OSPF

- D. IS-IS

**Answer: A**

Question #322

What next-hop address should router R2 use to reach a host on 192.168.2.0/24?



- A. 10.2.3.2
- B. 10.1.1.1
- C. 10.2.3.1
- D. 10.1.1.2

**Answer: B**

Question #323

Which of the following is a characteristic of Link State protocols?

- A. Routers send a copy of their entire routing table to their neighbors.
- B. Routers send frequent periodic updates to the entire network.
- C. Routers know the entire network topology.
- D. Routers use hop-count to calculate their routing tables.

**Answer: C**

Question #324

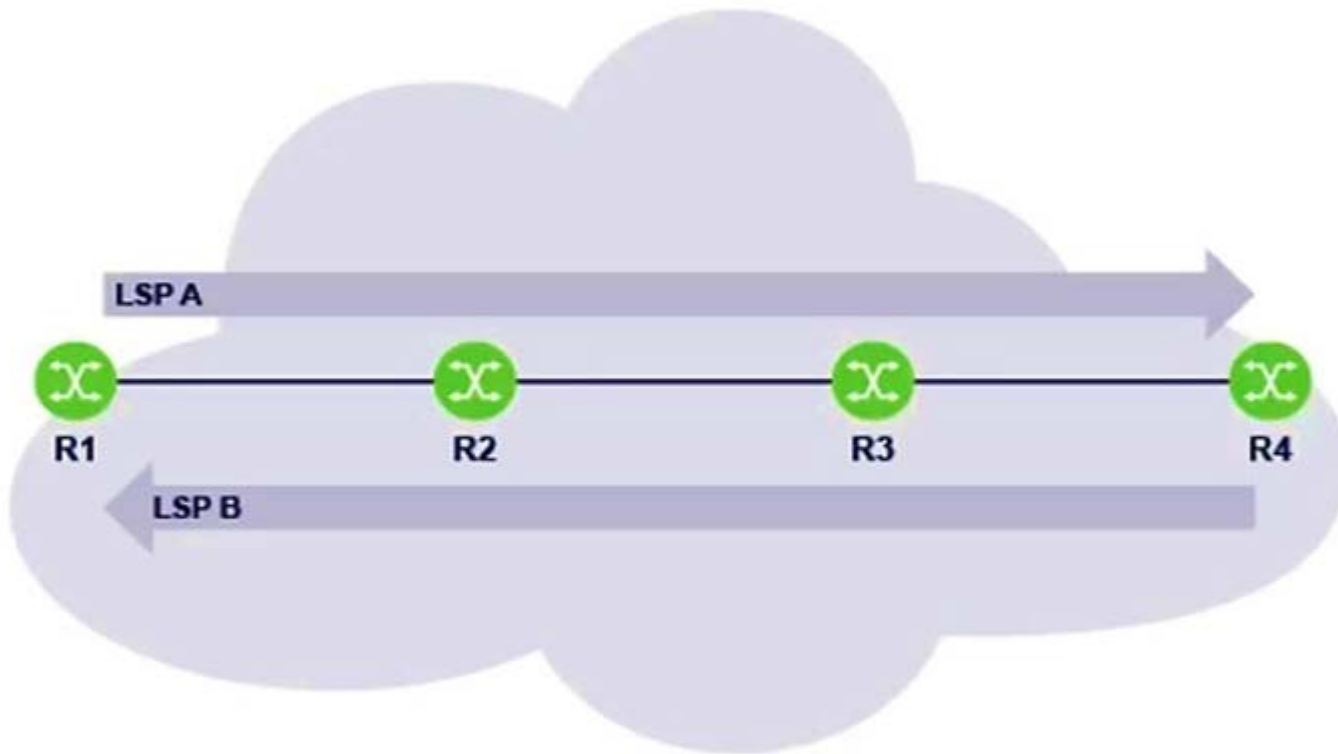
When forwarding a packet, which field in the following table determines the egress interface?

- A. Preference
- B. Metric
- C. Next-hop
- D. Cost

**Answer: C**

Question #325

Which of the following statements about router R3 is TRUE?



- A. Router R3 is the iLER for LSP B.
- B. Router R3 is the eLER for LSP A.
- C. Router R is an LSR for both LSP A and LSP B.
- D. Router R3 is LSR for LSP A and an LER for LSP B.

**Answer: C**

Question #326

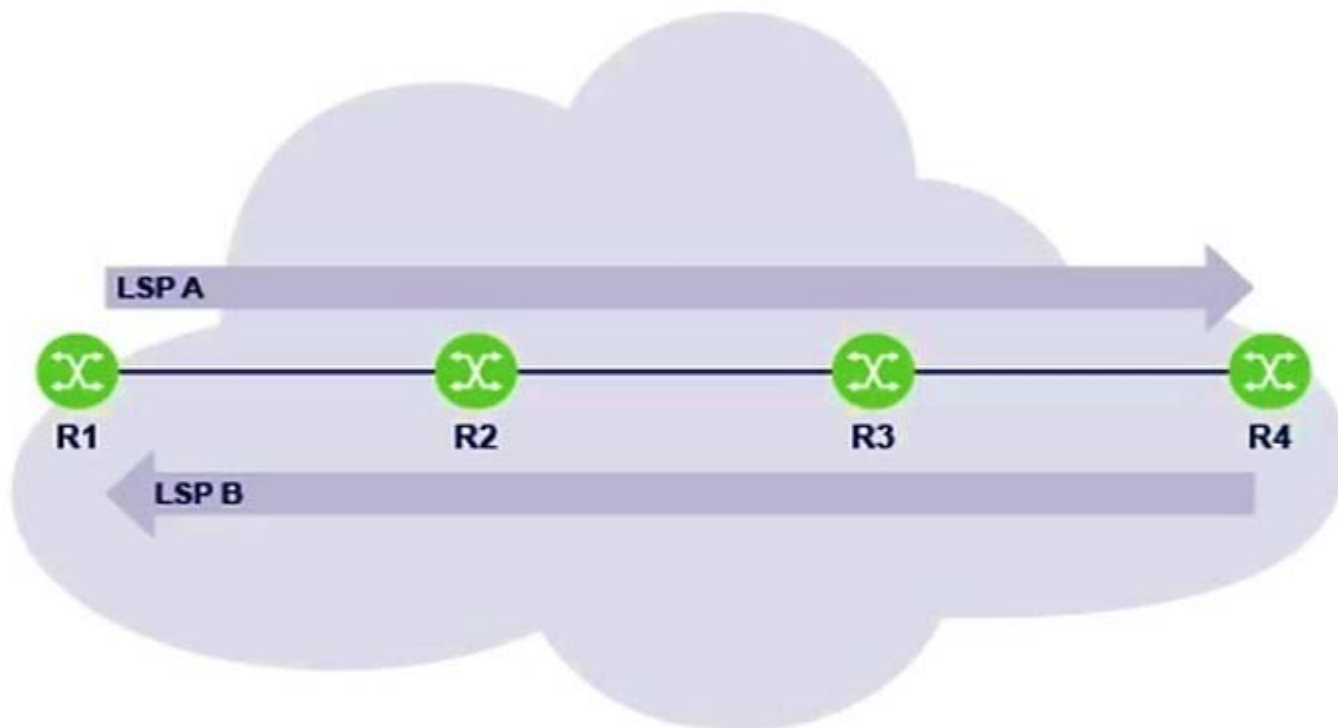
Which device is responsible for removing the MPLS label before the packet reaches the customer?

- A. The ingress LER
- B. The CE device
- C. The P router
- D. The egress LER

**Answer: D**

Question #327

Which of the MPLS routers is responsible for pushing new labels for LSP A and LSP B?



- A. Router R1 pushes labels for both LSP A and LSP B.
- B. Router R4 pushes labels for both LSP A and LSP B.
- C. Router R1 pushes labels for LSP A, while router R4 pushes labels for LSP B.
- D. Router R4 pushes labels for LSP A, while router R1 pushes labels for LSP B.

**Answer: C**

Question #328

From the CE perspective, how does a VPWS operate?

- A. Two sites are directly connected by a single cable.
- B. Two sites are connected through a single switched LAN.
- C. Two sites are connected through a public routed network.
- D. Two sites are connected through a private routed network.

**Answer: A**

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