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Alcatel-Lucent Interior Routing Protocols and High Availability

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QUESTION 1

In an OSPF environment, what must a router receive after it sends out an update?

A. The router must receive an acknowledgment

B. The router must receive a Hello

C. The router must receive a new sequence number

D. The router must receive a Link State Packet

Correct Answer: A

QUESTION 2

Click the exhibit button.

Exhibit 4.3.h

```
•OSPF Version      : 2          •OSPF Version      : 2
•Router Id         : 13.0.0.2   •Router Id         : 13.0.0.1
•Area Id           : 0.0.0.0    •Area Id           : 0.0.0.0
•Checksum          : 7c0e       •Checksum          : 865e
•Authentication    : Null       •Authentication    : Null
•Authentication Key: 00 00 00 00 00  •Authentication Key: 00 00 00 00 00 00
00 00 00                           00 00
•Packet Type       : DB_DESC    •Packet Type       : DB_DESC
•Packet Length     : 32         •Packet Length     : 32
•                              •
•Interface MTU     : 9000       •Interface MTU     : 9000
•Options           : 000042     •Options           : 000042
•Flags             : 7          •Flags             : 7
•Sequence Num      : 77793      •Sequence Num      : 75667
```

The OSPF packets shown have been exchanged between two neighbors. What state is the OSPF adjacency in?

A. The adjacency state is two way because both routers have received a database description packet.

B. The adjacency is in the exchange state. The next step is to exchange link state request and link state update packets.

C. The adjacency is in the ex start state. The routers have exchanged database description packets, but still have to negotiate the starting sequence number.

D. The adjacency state is full. The routers are exchanging database description packets to notify each other that all link state advertisements have been received.

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Correct Answer: C

QUESTION 3

Which of the following best describes the actions taken by an IS-IS router after it receives an LSP on a broadcast interface that is newer than the one in its database?

A. The router sends a copy of the LSP from its database to its neighbor.

B. The router updates its database with the LSP and floods a copy to its other neighbors.

C. The router updates its database with the LSP, acknowledges the LSP with a PSNP and floods a copy to its other neighbors.

D. The router updates its database with the LSP and acknowledges it with a PSNP.

Correct Answer: B

QUESTION 4

Which of the following is a feature of a black-hole static route?

A. It discards packets based on the source address.

B. It discards packets that match the destination prefix.

C. It returns ICMP unreachable messages.

D. It discards packets based on the egress port.

Correct Answer: B

QUESTION 5

Click the exhibit button. Assuming point-to-point links, which of the following statements is true?

```
Router 1 ISIS Adjacency
===================================
System ID          Usage State Hold Interface
-------------------------------------------------
R2         L2   Up   22   toR2
R3         L1   Up   19   toR3
-------------------------------------------------
Adjacencies : 2
```

```
Router 2 ISIS Adjacency
===================================
System ID          Usage State Hold Interface
-------------------------------------------------
R1         L2   Up   22   toR1
R4         L1   Up   19   toR4
-------------------------------------------------
Adjacencies : 2
```

A. Routers R1 and R2 are L2 routers. Routers R3 and R4 are L1/L2 routers

B. Routers R1, R2, and R4 are L1/L2 routers. Router R3 is an L1 router,

C. Routers R1, R2, and R3 are L2 routers. Router R4 is an L1 router,

D. Routers R1 and R2 are L1/L2 routers. Routers R3 and R4 are L1 routers

Correct Answer: D

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