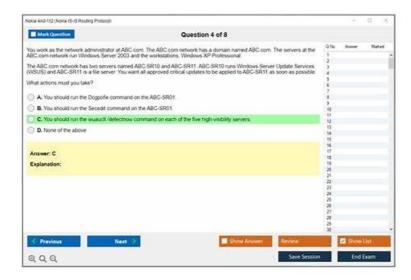
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## >> 4A0-112 Clear Exam <<

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# **Nokia IS-IS Routing Protocol Sample Questions (Q33-Q38):**

# **NEW QUESTION #33**

When a router performs the SPF calculation, which router is used as the root of the shortest path tree?

- A. The router's closest neighbor.
- B. The router doing the calculation.
- C. The router with the lowest router ID.
- D. The router with the fewest links.

#### Answer: B

#### Explanation:

When a router performs the SPF (Shortest Path First) calculation, it uses itself as the root of the shortest path tree (SPT). This router computes the shortest paths to all other routers in the network, treating itself as the origin and calculating the paths based on its view of the network.

# **NEW QUESTION #34**

A routing domain is using a single-area link-state routing protocol. Which of the following is NOT information that a router can share with other routers in the domain using protocol-specific messages?

- A. The local router ID and the router IDs of neighboring routers.
- B. The IP prefixes of subnets directly attached to the router.
- C. IP prefixes known by the router because it is running ad additional routing protocol.
- D. A copy of the local routing table.

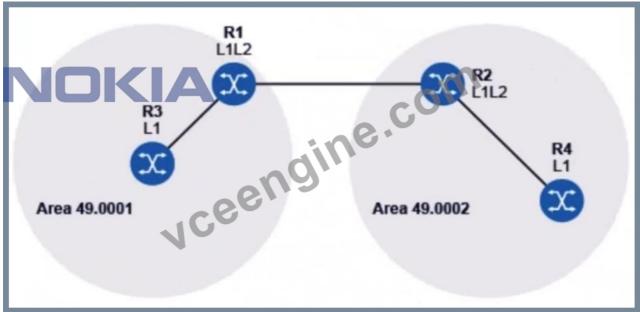
#### Answer: D

#### Explanation:

In a single-area link-state routing protocol (such as OSPF), routers share specific information about the network topology, not their entire routing table. They exchange link-state advertisements (LSAs) that contain information about their directly connected interfaces and their state, allowing other routers to build a consistent view of the network.

### **NEW QUESTION #35**

Refer to the exhibit.



Routers R1 through R4 in the diagram have established IS-IS adjacencies. Router R1 is L1/L2 and is the DIS of its two broadcast interfaces. How many LSPs will it generate?

- A. 0
- B. 1
- C. 2
- D. 3

#### Answer: B

#### Explanation:

Router R1 is configured as L1/L2, meaning it is part of both Level 1 and Level 2 IS-IS routing areas. This means R1 will generate two types of LSPs:

Level 1 LSP (for the local area 49.0001) to advertise its local topology to other Level 1 routers.

Level 2 LSP (for the backbone area 49.0002) to advertise the global network topology to Level 2 routers.

R1 also has two broadcast interfaces, and as the Designated Intermediate System (DIS) on these interfaces, it will generate an LSP

for each interface (one per broadcast link).

This results in three total LSPs:

A Level 1 LSP for the local area (49.0001).

A Level 2 LSP for the backbone area (49.0002).

An LSP for each of the two broadcast interfaces, which may include interface-related topology information.

#### **NEW OUESTION #36**

Which of the following definitions best describes route redistribution?

- A. It is the process of passing routing information from one routing domain to another, which usually means from one routing protocol to another.
- B. It is the process of deciding at line-rate speed which packets will be dropped and which ones will be forwarded.
- C. It is the process of controlling which route advertisements received from routing peers are accepted and/or deciding which locally known prefixes are advertised to routing peers.
- D. It is the process of redirecting packets to be processed by an intermediate network function before allowing them to be forwarded to their intended final destination.

#### Answer: A

# Explanation:

Route redistribution is the process of sharing routing information between different routing protocols or routing domains. For example, a router might redistribute routes learned via OSPF into a BGP routing table or vice versa. This enables routers to exchange routing information even when they are using different routing protocols.

#### **NEW QUESTION #37**

Which component of the Nokia 7750 SR is in charge of performing the longest prefix match lookup on packets that arrive on the physical interfaces?

- A. Media Dependent Adapter (MDA)
- B. Input/Output Module (IOM)
- C. Control Processing Module (CMP)
- D. Switch Fabric (SF)

## Answer: B

#### Explanation:

The Input/Output Module (IOM) is responsible for performing the longest prefix match (LPM) lookup on packets that arrive at the physical interfaces. The IOM performs this function by examining the destination IP address of incoming packets and using the routing table to determine the best match.

# NEW QUESTION # 38

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