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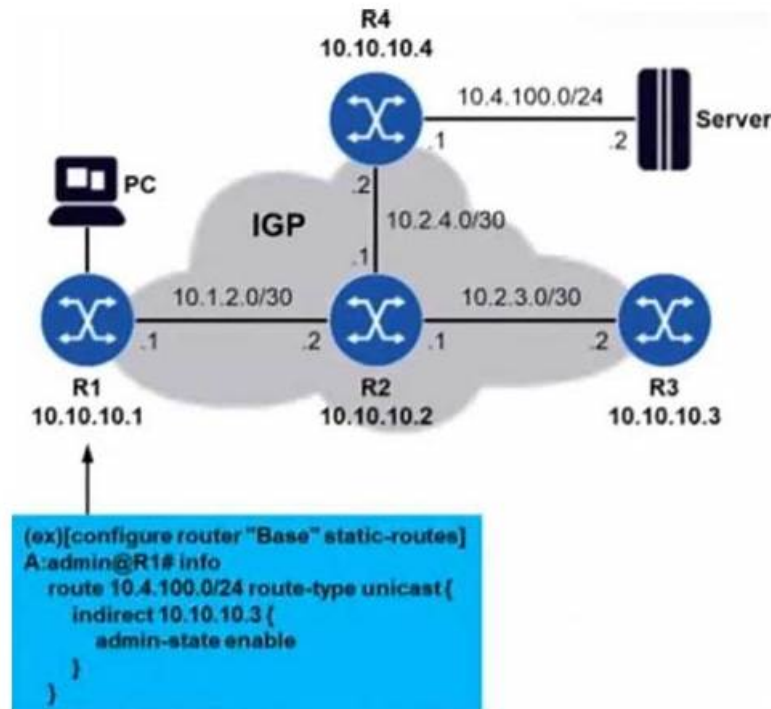
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Nokia IS-IS Routing Protocol Sample Questions (Q33-Q38):

NEW QUESTION # 33
Refer to the exhibit.
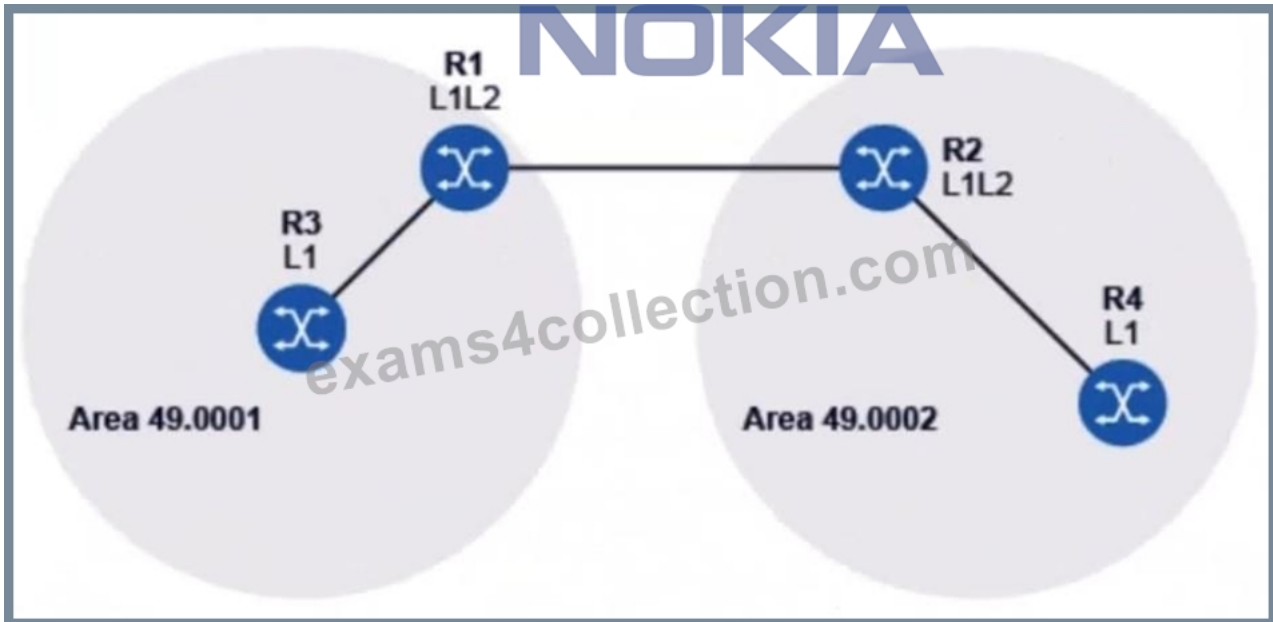
Routers R1 through R4 in the diagram have established IS-IS adjacencies. Router R1 is L1/L2 and is the DIS of its two broadcast interfaces. How many LSPs will it generate?

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

Answer: D

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 QUESTION # 34
Refer to the exhibit.

Routers R1, R2, R3, and R4 are running IS-IS. Assuming all interfaces are added to IS-IS as point-to-point and no commands are

issued at the interface level to restrict adjacencies, which of the following statements is TRUE?

- A. Routers R1 and R2 are L2 routers. Routers R3 and R4 are L1 routers.
- B. Routers R1 and R2 are L1/L2 routers. Routers R3 and R4 are L1 routers.
- C. All four routers are L1/L2.
- D. Routers R1 and R2 are L2 routers. Routers R3 and R4 are L1/L2 routers.

Answer: B

Explanation:
From the output, we can see that the usage column indicates whether a router is operating as an L1 or L2 router:
The L1/L2 designations refer to whether the routers participate in both Level 1 and Level 2 of IS-IS:
In this case, R1 and R2 are L2 routers, and R3 and R4 are L1 routers.

NEW QUESTION # 35
Which of the following is a valid alternative representation of the IPv6 address
2001:0da8:0000:0000:0024:0000:4ab9:0300?

- A. 2001:da8::0:24::4ab9:300
- B. 2001:0da8::0024:0000:4ab9:03
- C. 2001:da8::24::4ab9:300
- D. 2001:da8::24:0:4ab9:300

Answer: B

Explanation:
In IPv6, consecutive sections of zeros can be abbreviated with a double colon (::) once in an address. Also, leading zeros in each hextet (group of four hexadecimal digits) can be removed.
The original address is 2001:0da8:0000:0000:0024:0000:4ab9:0300.
Removing leading zeros and applying the abbreviation:

NEW QUESTION # 36
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. Input/Output Module (IOM)
- B. Switch Fabric (SF)
- C. Media Dependent Adapter (MDA)
- D. Control Processing Module (CMP)

Answer: A

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 # 37
On a broadcast interface, an IS-IS router receives an LSP that is newer than the one on its database. Which of the following statements best describes the actions taken by the router as a consequence?

- A. The router updated its database with the LSP, acknowledges the LSP with a PSNP, and floods a copy to its neighbors on other interfaces.
- B. The router updates its database with the LSP and floods a copy to its neighbors on other interfaces.
- C. The router updates its database with the LSP and acknowledges it with a PSNP.
- D. The router sends back a copy of the LSP from its database to its neighbor.

Answer: A

Explanation:
When an IS-IS router receives a newer LSP (Link-State PDU) than the one already in its database, it takes the following actions:
Updates its link-state database with the new LSP.
Acknowledges the LSP with a PSNP (Partial Sequence Number PDU), which is sent to the router that originated the LSP, confirming the receipt of the newer LSP.
Floods a copy of the updated LSP to its neighbors on other interfaces to ensure all routers in the network have the updated topology information.

NEW QUESTION # 38

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