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Practice Exam Questions for: Nokia IP Networks and Services Fundamentals (exam number: 4A0-100)

The following questions will test your knowledge and prepare you for the Nokia NRS I Certification Exam. Compare your responses with the Answer Key at the end of the document.

Module 1: Introduction to Networking and Services

1. Which TCP/IP layer is responsible for path determination and end-to-end forwarding of datagrams?
 - a. The Application layer
 - b. The Transport layer
 - c. The Internet layer
 - d. The Link layer
2. What information is part of the encapsulation done at the Link layer?
 - a. Source and destination MAC addresses
 - b. Source and destination IP addresses
 - c. Source and destination port numbers
 - d. Source and destination email addresses
3. Which of the following is NOT a function of the control plane in a router?
 - a. To exchange control messages with other routers
 - b. To collaborate with other routers to find the best way to forward data packets
 - c. To populate the routing table and the tunnel table
 - d. To forward data packets towards their destination

Module 2: Introduction to the 7750 Service Router

4. Which of the following shows a typical data packet flow when egressing a Nokia 7750 SR?
 - a. SF/CPM -> MQA -> IOM -> SFP
 - b. SF/CPM -> SFP -> IOM -> MQA
 - c. SF/CPM -> IOM -> MQA -> SFP
 - d. MQA -> IOM -> SF/CPM -> SFP

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Nokia IS-IS Routing Protocol Sample Questions (Q15-Q20):

NEW QUESTION # 15

There are several differences between IS-IS Hello packets used on broadcast interfaces and on point-to-point interfaces. Which of the following statements is FALSE?

- A. Broadcast Hello messages identify the elected designated IS (DIS) and point-to-point Hello messages do not.
- B. The multicast MAC addresses to which the Hello messages are sent are different on broadcast interfaces and on point-to-point interfaces.
- C. The neighbors are identified using their interface MAC addresses on broadcast Hello messages and using their system IDs on point-to-point Hello messages.
- D. On broadcast interfaces there are different Hello packet types for level-1 and level-2 adjacencies, whereas on point-to-point interfaces there is a single Hello packet type.

Answer: C

Explanation:

In both broadcast and point-to-point interfaces, IS-IS routers identify neighbors using system IDs, not interface MAC addresses. The system ID is a unique identifier assigned to each router, and it is used to identify neighbors in both types of interfaces.

NEW QUESTION # 16

Which of the following definitions best describes route redistribution?

- A. 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.
- B. It is the process of passing routing information from one routing domain to another, which usually means from one routing protocol to another.
- C. It is the process of deciding at line-rate speed which packets will be dropped and which ones will be forwarded.
- 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.

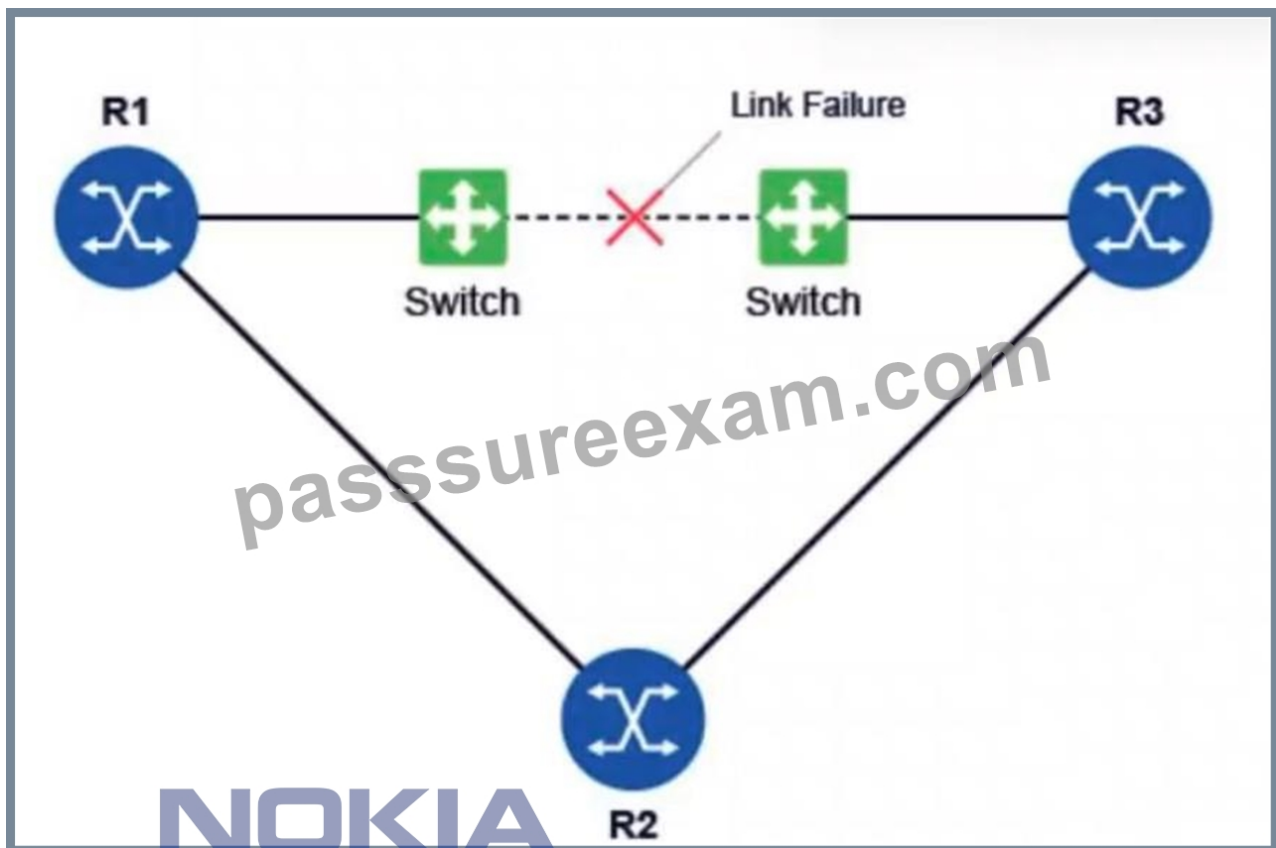
Answer: B

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 # 17

Refer to the exhibit.



All routers in the diagram are running a link-state routing protocol. Before the link failure, all routers have operational adjacencies with each other and there is a BFD session between routers R1 and R3. After the link failure, which of the following affects the routing protocol's convergence time?

- A. The value of the BFD transmit interval, receive interval and multiplier settings on routers R1 and R3.
- B. The time taken by the switches to detect that the physical ports are down.
- C. The value of the routing protocol hello timers on routers R1 and R3.
- D. The value of the Ethernet hello timers on the switches.

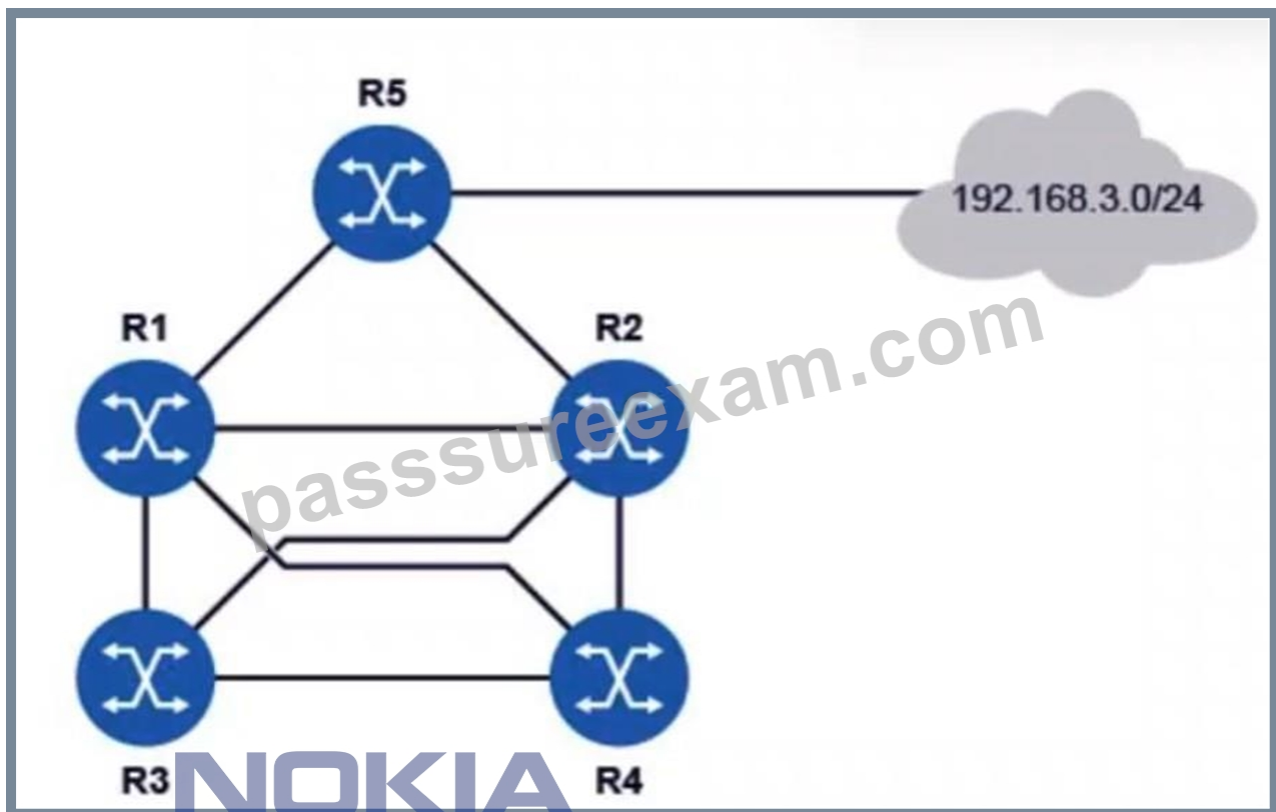
Answer: A

Explanation:

BFD (Bidirectional Forwarding Detection) is used to detect link failures quickly and helps improve convergence time in link-state routing protocols. The BFD session between routers R1 and R3 allows them to detect the failure of the link between them more quickly than the regular routing protocol hello timers. The transmit interval, receive interval, and multiplier settings determine how fast BFD detects a failure and triggers the routing protocol to converge, which directly impacts the convergence time.

NEW QUESTION # 18

Refer to the exhibit.



All routers in the diagram are running an interior gateway protocol (IGP) and have been configured with an ECMP value of 4. Router R5 advertises the prefix 192.168.3.0/24 using the IGP. Assuming all links have the same cost, how many entries for prefix 192.168.3.0/24 will be in router R3's routing table?

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

Answer: C

Explanation:

In this scenario, the routers are configured with an Equal-Cost Multi-Path (ECMP) value of 4, meaning they can utilize up to 4 equal-cost paths to reach a destination. Since Router R5 is advertising the 192.168.3.0/24 prefix and all links have the same cost, router R3 will receive multiple routes to reach this destination.

Given that all the routers (R1, R2, R3, R4, and R5) are connected in a way that can support multiple equal-cost paths, and assuming ECMP is set to 4, the routing table on Router R3 will have up to 4 entries for the prefix 192.168.3.0/24.

Thus, Router R3's routing table will contain 4 entries for the prefix 192.168.3.0/24.

NEW QUESTION # 19

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

Answer: C

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 # 20

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