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# Pass Guaranteed Quiz JN0-664 - Service Provider, Professional (JNCIP-SP) Fantastic Practice Test Engine

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# Juniper Service Provider, Professional (JNCIP-SP) Sample Questions (Q73-Q78):

#### **NEW QUESTION #73**

Which two statements are correct regarding the PIM DR in a PIM-SM domain? (Choose two.)

• A. If the DR priorities match, the router with the lowest IP address is selected as the DR.

- B. The source DR sends PIM register messages from the source network to the RP.
- C. By default, PIM DR election is performed on point-to-point links.
- D. The receiver DR sends PIM join and PIM prune messages from the receiver network toward the RP.

#### Answer: B,D

#### Explanation:

In PIM-SM (Protocol Independent Multicast - Sparse Mode), the Designated Router (DR) plays a crucial role in multicast forwarding. The DR is responsible for various tasks depending on whether it is connected to the source or the receiver. Let's analyze each statement regarding the PIM DR in a PIM-SM domain.

- 1. \*\*Statement A: The source DR sends PIM register messages from the source network to the RP.\*\*
- Correct. In PIM-SM, the DR on the source's local network is responsible for encapsulating multicast packets in PIM Register messages and sending them to the Rendezvous Point (RP). This process ensures that the RP is aware of active sources.
- 2. \*\*Statement B: If the DR priorities match, the router with the lowest IP address is selected as the DR.\*\*
- Incorrect. The correct rule is that if the DR priorities match, the router with the \*\*highest\*\* IP address is selected as the DR. The election process first compares priorities; if priorities are equal, the IP addresses are compared to select the DR.
- 3. \*\*Statement C: The receiver DR sends PIM join and PIM prune messages from the receiver network toward the RP.\*\*
- Correct. In PIM-SM, the DR on the receiver's local network sends PIM Join messages toward the RP to join the multicast distribution tree. Similarly, it sends PIM Prune messages to leave the tree when there are no interested receivers.
- 4. \*\*Statement D: By default, PIM DR election is performed on point-to-point links. \*\*
- Incorrect. By default, PIM DR election is performed on multi-access networks (e.g., Ethernet). On point-to- point links, there is no need for a DR election as there are only two routers involved.
- \*\*Conclusion\*\*:

The correct statements regarding the PIM DR in a PIM-SM domain are:

- \*\*A. The source DR sends PIM register messages from the source network to the RP.\*\*
- \*\*C. The receiver DR sends PIM join and PIM prune messages from the receiver network toward the RP.\*\*
- \*\*References\*\*:
- Juniper Networks Documentation on PIM-SM: [PIM-SM Overview](https://www.juniper.net/documentation /en US/junos/topics/concept/pim-sparse-mode-overview.html)
- RFC 7761, Protocol Independent Multicast Sparse Mode (PIM-SM): [RFC 7761](https://tools.ietf.org/html/rfc7761) which details the PIM-SM protocol, including DR roles and election procedures.

#### **NEW OUESTION #74**

You are examining an L3VPN route that includes the information shown in the exhibit.

Which statement is correct in this scenario?



- A. The information shows a Type 0 route distinguisher.
- B. The information shows a Type 2 route distinguisher.
- C. The information shows a route target.
- D. The information shows a Type 1 route distinguisher.

#### Explanation:

Type 1: When Type value is 1, the Administrator field is 4-bytes and Assigned Number field is 2- bytes.

The Administrator field should be set to the IP address (public IP addresses should be used). The Assigned Number field contains a number from a numbering space that is administered by the enterprise to which the IP address has been assigned by the appropriate authority.

#### **NEW OUESTION #75**

In IS-IS, which two statements are correct about the designated intermediate system (DIS) on a multi-access network segment? (Choose two)

- A. A router with a priority of 1 wins the DIS election over a router with a priority of 10.
- · B. On the multi-access network, each router forms an adjacency to every other router on the segment
- C. On the multi-access network, each router only forms an adjacency to the DIS.
- D. A router with a priority of 10 wins the DIS election over a router with a priority of 1.

#### Answer: B,D

#### Explanation:

Option A (Correct):

In IS-IS, the Designated Intermediate System (DIS) is elected based on the highest configured priority (as defined in Junos OS). If priorities are equal, the router with the highest MAC address becomes the DIS.

A priority value of 10 will always override a lower priority (e.g., 1).

Reference:

Option C (Correct):

On a multi-access network (e.g., Ethernet), all IS-IS routers form adjacencies with every other router on the segment.

Unlike OSPF, IS-IS does not restrict adjacencies to only the DIS.

The DIS is responsible for creating a pseudonode LSP to represent the broadcast network, but full mesh adjacencies are maintained.

Why Other Options Are Incorrect:

Option B: Incorrect. Higher priority always wins the DIS election. A priority of 1 cannot override a priority of 10.

Option D: Incorrect. IS-IS routers form adjacencies with all neighbors, not just the DIS.

Key Takeaways:

DIS Election: Prioritizes highest numerical value (e.g., 10 > 1).

Adjacency Behavior: Full mesh adjacencies are maintained, unlike OSPF.

DIS Role: Primarily for generating pseudonode LSPs and optimizing flooding, not adjacency restriction.

For further details, refer to Juniper's official IS-IS documentation:

Juniper IS-IS Configuration Guide.

https://www.juniper.net/documentation/us/en/software/junos/is-is/topics/concept/routing-protocol-is-is-security-designated-router-understanding.html

#### **NEW QUESTION #76**

After a recent power outage, your manager asks you to investigate ways to automatically reduce the impact caused by suboptimal routing in your OSPF and OSPFv3 network after devices reboot.

Which three configuration statements accomplish this task? (Choose three.)

- A. set protocols ospf3 realm ipv4-unicast overload timeout 900
- B. set protocols ospf overload
- C. set protocols ospf overload timeout 900
- D. set protocols ospf3 overload
- E. set protocols ospf3 overload timeout 900

#### Answer: A,C,E

#### Explanation:

To reduce the impact of suboptimal routing in OSPF and OSPFv3 after devices reboot, you can use the overload feature to prevent a router from being used as a transit router for a specified period of time. This allows the router to stabilize its routing table before forwarding traffic for other routers. To enable the overload feature, you need to do the following:

For OSPF, configure the overload statement under [edit protocols ospf] hierarchy level. You can also specify a timeout value in seconds to indicate how long the router should remain in overload state after it boots up. For example, set protocols ospf overload

timeout 900 means that the router will be in overload state for 15 minutes after it boots up.

For OSPFv3, configure the overload statement under [edit protocols ospf3] hierarchy level. You can also specify a realm (ipv4-unicast or ipv6-unicast) and a timeout value in seconds to indicate how long the router should remain in overload state after it boots up for each realm. For example, set protocols ospf3 realm ipv4-unicast overload timeout 900 means that the router will be in overload state for 15 minutes after it boots up for IPv4 unicast routing.

#### **NEW QUESTION #77**

**Exhibit** 

```
user@router> show route advertising-protocol bgp 1 0.0.43 extensive 10.0.0.188 inet.0: 23 destinations, 41 routes (23 active, 0 holddown, 0 hidden)
* 10.0.0.188/32 (2 entries, 1 announced)
BGP group underlay type External
AS path: [65189] 65170 65188 I
```

Referring to the exhibit, what do the brackets [] in the AS path identify?

- A. They identify the local AS number associated with the AS path if configured on the router, or if AS path prepending is configured
- B. They identify an AS set, which are groups of AS numbers in which the order does not matter
- C. They identify that a BGP confederation is being used to ensure that there are no routing loops.
- D. They identify that the autonomous system number is incomplete and awaiting more information from the BGP protocol.

#### Answer: A

Explanation:

https://www.juniper.net/documentation/us/en/software/junos/cli-reference/topics/ref/command/show-route-advertising-protocol.html

#### **NEW QUESTION #78**

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