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Huawei H12-821_V1.0 (HCIP-Datacom-Core Technology V1.0) exam is a certification exam designed for professionals who want to prove their proficiency in the core technologies of data communication. H12-821_V1.0 exam is intended to assess the skills and knowledge of candidates in areas such as network architecture, protocols, technologies, and security. The Huawei H12-821_V1.0 Exam is a globally recognized certification that validates the expertise of professionals in the field of data communication.

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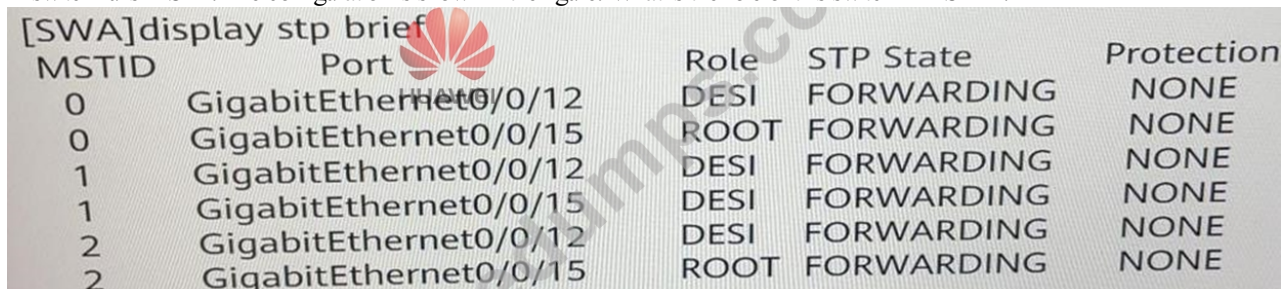
Huawei H12-821_V1.0 certification exam is a challenging exam that requires in-depth knowledge and practical experience in data communication networks. H12-821_V1.0 exam consists of multiple-choice questions, scenario-based questions, and simulation questions that test the candidate's ability to design, deploy, and manage large-scale data communication networks. To pass the exam, candidates must have a thorough understanding of the topics covered in the exam and must be able to apply this knowledge in real-world scenarios.

The HCIP-Datcom-Core Technology V1.0 exam is intended for those who are seeking to enhance their career in the field of data communication. It is an intermediate-level certification exam, meaning that candidates should have a good understanding of the fundamentals of data communication before taking H12-821_V1.0 Exam. H12-821_V1.0 exam is also suitable for those who are interested in pursuing a career in network engineering or network administration. Passing the exam demonstrates a candidate's commitment to professional development and their ability to work with complex data communication systems.

Huawei HCIP-Datcom-Core Technology V1.0 Sample Questions (Q746-Q751):

NEW QUESTION # 746

A switch runs MSTP. The configuration is shown in the figure. What is the role of this switch in MSTI 1?



MSTID	Port	Role	STP State	Protection
0	GigabitEthernet0/0/12	DESI	FORWARDING	NONE
0	GigabitEthernet0/0/15	ROOT	FORWARDING	NONE
1	GigabitEthernet0/0/12	DESI	FORWARDING	NONE
1	GigabitEthernet0/0/15	DESI	FORWARDING	NONE
2	GigabitEthernet0/0/12	DESI	FORWARDING	NONE
2	GigabitEthernet0/0/15	ROOT	FORWARDING	NONE

- A. Uncertain
- B. Non-root switch
- C. Secondary root switch
- D. Root switch

Answer: A

NEW QUESTION # 747

Which of the following is the default interval at which the DIS on a broadcast IS-IS network sends CSNPs.

- A. 3.3
- B. 0
- C. 1
- D. 2

Answer: D

Explanation:

The Designated Intermediate System (DIS) in an IS-IS broadcast network sends Complete Sequence Number PDUs (CSNPs) at a default interval of 30 seconds.

This interval ensures periodic synchronization of the Link State Database (LSDB) among IS-IS neighbors.

NEW QUESTION # 748

The Neighbor Discovery Protocol (NDP) is an important basic protocol in the IPv6 protocol suite and plays an important role. Which of the following functions and features does it support?

- A. Neighbor state tracing
- B. Duplicate address detection

- C. Address resolution
- D. Redirection

Answer: A,B,C,D

Explanation:

Neighbor Discovery Protocol (NDP):

* NDP is a key protocol in the IPv6 protocol suite, replacing ARP (Address Resolution Protocol) in IPv4.

* It operates using ICMPv6 (Internet Control Message Protocol for IPv6) and is critical for managing interactions between IPv6 nodes on the same link.

HCIP-Datacom-Core Technology Training Material (NDP Functions and Features).

NDP Features and Functions:

A). Address resolution:NDP resolves IPv6 addresses into MAC addresses, similar to ARP in IPv4. It uses Neighbor Solicitation (NS) and Neighbor Advertisement (NA) messages for this purpose.Reference: HCIP- Datacom-Core Technology Training Material (Address Resolution in IPv6).

B). Neighbor state tracing:NDP tracks the state of neighbors to determine their reachability. It maintains a neighbor cache and uses NS/NA messages to verify whether neighbors are reachable.Reference: HCIP- Datacom-Core Technology Training Material (Neighbor Reachability in IPv6).

C). Duplicate address detection (DAD):NDP ensures that IPv6 addresses are unique within a network.

Before assigning an address to an interface, DAD is used to verify that no other node is using the same address. This is done via NS messages.Reference: HCIP-Datacom-Core Technology Training Material (IPv6 Address Assignment and DAD).

D). Redirection:NDP provides redirection functionality to inform hosts of a better first-hop router for reaching a particular destination. It uses ICMPv6 Redirect messages for this purpose.Reference: HCIP-Datacom- Core Technology Training Material (NDP Redirect Functionality).

Conclusion:NDP supports all the mentioned functions and features: Address resolution, Neighbor state tracing, Duplicate address detection, and Redirection, making it indispensable for IPv6 networks.

NEW QUESTION # 749

There are two types of routing entries on a PIM network. (S, G) routing entries are used to set up on a PIM network and are applicable to both PIM-DM and PIM-SM networks.

Answer:

Explanation:

SPT

* Routing Entries in PIM

* (S, G) entries: Represent the shortest path tree (SPT) from a specific source (S) to a specific multicast group (G). These entries are created after data packets are transmitted directly from the source to the receivers.

* (S, G) entries are used in both PIM-DM and PIM-SM modes.

* PIM-DM and PIM-SM Modes

* In PIM-DM, multicast traffic is initially flooded throughout the network and pruned where no receivers exist. (S, G) entries represent source-specific paths created after the flooding stage.

* In PIM-SM, multicast traffic initially flows through a shared tree, but (S, G) entries are created when the network switches to the SPT for more efficient forwarding.

* HCIP-Datacom-Core Reference

* The functionality and application of (S, G) routing entries are detailed in multicast and PIM configuration chapters.

NEW QUESTION # 750

An IP prefix list is a common matching tool in routing policies. When an IP prefix list is configured on a Huawei router, which of the following parameters are optional?

- A. Shortest mask length to be matched
- B. Mask length
- C. Longest mask length to be matched
- D. Index of the prefix list

Answer: A,C,D

Explanation:

Comprehensive and Detailed In-Depth Explanation:

- * IP Prefix lists are used to filter routes based on prefix and mask length.
- * The optional parameters include:
 - * Index of the prefix list # Specifies priority/order (Optional).
 - * Shortest mask length to be matched # Defines the minimum subnet mask (Optional).
 - * Longest mask length to be matched # Defines the maximum subnet mask (Optional).
 - * Mask length (D) is mandatory because it specifies the exact prefix length being matched.
- # Reference: Huawei HCIA-Datcom Study Guide, Configuring Prefix Lists for Route Filtering.

NEW QUESTION # 751

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