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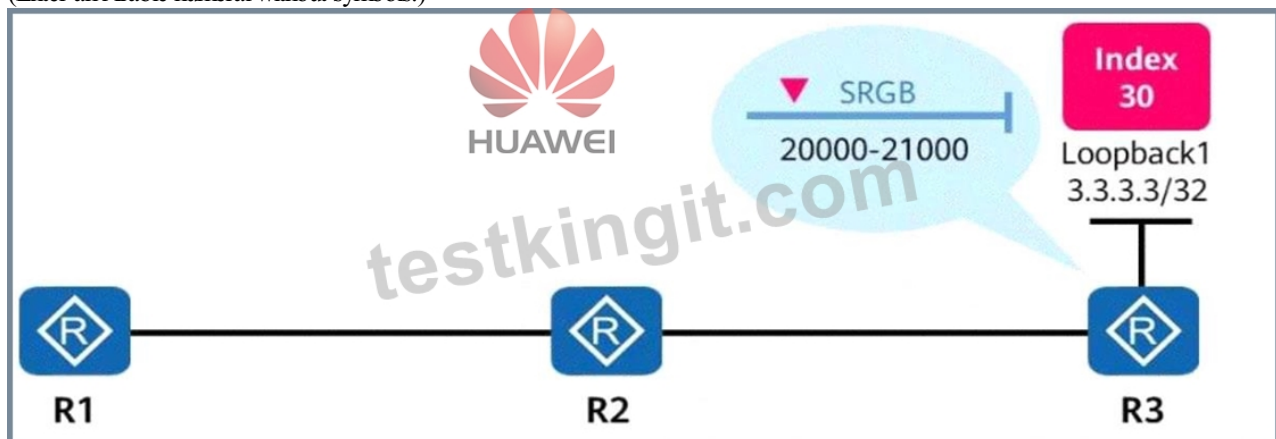
Huawei HCIE-Datcom V1.0 Sample Questions (Q273-Q278):

NEW QUESTION # 273

In the figure, SR-MPLS is enabled on R1, R2, and R3. The SRGB (Segment Routing Global Block) range on R3 is from 20000 to 21000, and the prefix SID index configured on the loopback1 interface of R3 is 30.

In this case, the MPLS label corresponding to the loopback1 interface of R3 is ____.

(Enter an Arabic numeral without symbols.)



Answer:

Explanation:

20030

Explanation:

Understanding SR-MPLS Label Calculation

SR-MPLS uses Segment Routing Global Block (SRGB) and Prefix SIDs to assign labels dynamically. The MPLS label for a node's loopback interface is calculated as follows:

MPLS Label = SRGB Base + Prefix SID Index

Where:

* SRGB Base = 20000 (as given in the figure)

* Prefix SID Index = 30 (configured for R3's Loopback1)

Label Calculation:

20000 + 30 = 20030

Thus, the MPLS label corresponding to the loopback1 interface of R3 is 20030.

Why the Answer is 20030?

The SRGB defines the base label range. # Each router is assigned a unique Prefix SID index. # The label is dynamically computed by adding the Prefix SID Index to the SRGB Base.

Why Other Numbers Are Incorrect?

Any value outside the range 20000-21000

* Would be incorrect because it must be within R3's SRGB range.

Using the Prefix SID Index directly (30)

* Incorrect because MPLS labels are not assigned directly using Prefix SIDs; they are computed using the SRGB.

Reference: Huawei HCIE Datcom - SR-MPLS Label Calculation and SRGB

NEW QUESTION # 274

In Huawei SD-WAN Solution, which of the following tunneling technologies is used to establish data channels?

- A. MPLS
- B. VXLAN
- C. GRE over IPsec
- D. IPsec

Answer: C

Explanation:

Huawei SD-WAN establishes secure tunnels between SD-WAN edge devices (CPEs, AR routers, and controllers) using tunneling protocols.

B. GRE over IPsec (Correct Answer)

* GRE (Generic Routing Encapsulation) over IPsec is the primary tunneling method used in Huawei SD-WAN.

* GRE provides multi-protocol encapsulation, while IPsec ensures encryption and security.

* Used for secure communication over public WAN links (e.g., the internet, LTE, MPLS, etc.).

NEW QUESTION # 275

In a network in MPLSVPN, different CE devices can exchange routing information with the same PE device using different routing protocols, and different CE devices can exchange routing information with the same PE. The routing protocols used between devices are independent of each other.

- A. False
- B. True

Answer: B

NEW QUESTION # 276

In the SD-WAN Solution, which routing protocols can be used by LAN-side devices to connect to a Layer 3 network?

- A. RIP
- B. IS-IS
- C. OSPF
- D. BGP

Answer: A,B,C,D

Explanation:

In the Huawei SD-WAN solution, LAN-side devices (such as CPEs and aggregation routers) use various routing protocols to connect to Layer 3 networks and exchange routes dynamically. The supported protocols include:

A. IS-IS (Intermediate System to Intermediate System)

* A link-state protocol often used in large enterprise networks for fast convergence and scalability.

B. OSPF (Open Shortest Path First)

* A widely used dynamic routing protocol for intra-domain (LAN) connectivity.

* Commonly used in enterprise networks to connect SD-WAN edge routers to LAN networks.

C. BGP (Border Gateway Protocol)

* BGP is primarily used for WAN and internet connectivity, but it can also be used inside large enterprise networks for LAN-side routing.

* BGP enables inter-domain routing and policy-based route control.

D. RIP (Routing Information Protocol)

* A legacy distance-vector protocol still supported in some networks for basic LAN routing.

* Less preferred due to slow convergence and hop-count limitations.

Reference from Huawei HCIE-Datcom Documentation:

* Huawei SD-WAN Deployment Guide - LAN-Side Routing Protocols

* HCIE-Datcom Training Material - Routing Configuration in SD-WAN

NEW QUESTION # 277

Which of the following statements about SR-MPLS Policy path planning are correct?

- A. If you use the controller to plan SR-MPLS Policy paths, only primary and backup paths can be deployed, and load balancing cannot be implemented for the primary path.
- B. When statically planning SR-MPLS Policy paths, you can plan load balancing for the primary path.
- C. When planning paths based on bandwidth, you need to set the available bandwidth of each interface in advance.
- D. When planning paths based on delay, you must deploy TWAMP or iFIT in advance to measure real-time network delay.

Answer: B,C,D

Explanation:

Comprehensive and Detailed In-Depth Explanation:

A: When planning paths based on bandwidth: Correct. The available bandwidth of each interface must be set in advance to allow path planning based on bandwidth requirements.

B: When planning paths based on delay: Correct. To plan paths considering delay, you need to deploy TWAMP (Two-Way Active Measurement Protocol) or iFIT (Intelligent Flow Information Telemetry) to measure the real-time delay on network links.

C: If the controller plans SR-MPLS Policy paths: Incorrect. The controller can plan primary, backup, and load-balanced paths, enabling traffic distribution across multiple paths.

D: Statically planned SR-MPLS Policy paths: Correct. You can manually configure load balancing for the primary path when planning the SR-MPLS Policy path statically.

NEW QUESTION # 278

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