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Huawei HCIE-Datacom V1.0 Sample Questions (Q15-Q20):

NEW QUESTION # 15

If ISIS is used to transmit SIDs on an SR network, the node SIDs advertised by a Level-2 router are transmitted only within the same area.

- A. FALSE
- B. TRUE

Answer: A

Explanation:

Comprehensive and Detailed In-Depth

When IS-IS is used as the IGP (Interior Gateway Protocol) to advertise Segment Routing (SR) SIDs, the Level-2 (L2) router advertises node SIDs globally across the entire IS-IS domain, not just within a single area.

Level-1 (L1) routers only advertise within the local area, but L2 routers distribute information across multiple areas, enabling inter-area reachability.

Therefore, the statement is FALSE.

Reference:

Huawei HCIE Datacom Official Certification Guide

Huawei IS-IS Configuration Guide

RFC 8667: Segment Routing with IS-IS

NEW QUESTION # 16

As shown in the following topology, EBGP is running between AS100, AS200, AS300, AS400, and the neighbor relationship is established S400. When you receive a BGP route from AS100 for a 1.1.1.1/32 network segment, is the path order recorded in the ASPath properties correct?



- A. 400,300,200,100
- B. 100, 200,300, 400
- C. 10,200,3
- **D. 300, 200,100**

Answer: D

NEW QUESTION # 17

As shown in the following figure, an engineer tests network interconnection between two branches. To implement network interconnection, OSPF is deployed on R1, R2, and R3 of branch 1, and IS-IS is deployed on R2, R3, and R4 of branch 2. Which of the following operations needs to be performed to allow R1 to access R4's loopback interface address?

- A. No configuration is required.
- B. Run the default-route-advertise command only in the IS-IS view on R2.
- **C. Run the default-route-advertise command only in the OSPF view on R2.**
- D. Run the default-route-advertise command in both the OSPF and IS-IS views on R2.

Answer: C

Explanation:

Understanding the Network Scenario:

R2 is the boundary router between OSPF and IS-IS.

OSPF and IS-IS do not automatically redistribute routes between each other.

R4's loopback (10.1.4.4/32) exists in the IS-IS domain.

To allow R1 (OSPF) to reach R4's loopback, R2 must redistribute IS-IS routes into OSPF.

Why Option C Is Correct (☐)

✓ default-route-advertise in OSPF on R2:

This advertises a default route into the OSPF domain, allowing OSPF routers (R1, R3) to forward unknown traffic to R2.

Since IS-IS routes are not automatically injected into OSPF, this ensures R1 can reach R4.

✓ IS-IS Already Has Routes to OSPF

IS-IS routers (R3, R4) already learn routes from OSPF via R2 (assuming route redistribution is properly configured).

No need to run default-route-advertise in IS-IS.

Why Other Options Are Incorrect (☐)

☐ A. Run default-route-advertise in both OSPF and IS-IS views on R2

Unnecessary in IS-IS. The IS-IS domain already learns OSPF routes from R2 via redistribution.

Only OSPF needs a default route to forward unknown traffic to R2.

☐ B. No configuration is required

Incorrect, because OSPF does not automatically learn IS-IS routes.

A default route or redistribution is needed for R1 to reach R4.

☐ D. Run default-route-advertise only in the IS-IS view on R2

Incorrect, because IS-IS already has routing information from OSPF.

The issue is with OSPF not learning IS-IS routes, so the command needs to be in OSPF view.

☐ Reference: Huawei HCIE Datacom - OSPF and IS-IS Route Redistribution and Interoperability

NEW QUESTION # 18

The TTL field encapsulated in the MPLS label header can prevent infinite loops of MPLS packets. Which of the following statements regarding the TTL field are correct?

- A. MPLS encapsulation in frame mode supports the TTL field. MPLS encapsulation in cell mode does not support the TTL field.
- B. The processing of IP TTL copy hides the LSR in an MPLS domain, improving network security.
- C. If TTL copy is disabled, users can use the traceroute function to view the LSR of the MPLS domain.
- D. MPLS provides two processing modes on the TTL field:
TTL in the MPLS header copies the IP TTL value when an IP packet enters the MPLS network.
The ingress LER sets the TTL value in the MPLS header to 255.

Answer: A,B,D

Explanation:

The Time-To-Live (TTL) field in MPLS is essential for preventing infinite loops and enhancing security.

* MPLS TTL Field Functionality:

* It prevents packets from circulating indefinitely in the MPLS network.

* It allows traceroute (tracert) to identify MPLS hops when TTL propagation is enabled.

* Explanation of Correct Answers:# B. The processing of IP TTL copy hides the LSR in an MPLS domain, improving security.

* If TTL propagation is disabled, MPLS routers do not decrease TTL, hiding internal LSRs from traceroute, enhancing security.

C. MPLS provides two TTL processing modes:

* Default Mode: The MPLS TTL copies the IP TTL value when an IP packet enters the MPLS network.

* Uniform Mode: The ingress LER sets the MPLS TTL to 255, so it does not decrement.

D. MPLS encapsulation in frame mode supports the TTL field, while cell mode does not.

* Frame Mode (Ethernet, PPP, etc.) supports TTL.

* Cell Mode (ATM/MPLS) does not support TTL.

* Incorrect Answer Explanation# A. If TTL copy is disabled, users can use the traceroute function to view MPLS hops.

* Wrong! If TTL propagation is disabled, traceroute cannot see LSRs inside the MPLS core network.

Reference from Huawei HCIE-Datcom Documentation:

* Huawei MPLS Technology Guide - TTL Field & Loop Prevention

* HCIE-Datcom MPLS VPN Configuration Guide - Traceroute in MPLS Networks

NEW QUESTION # 19

There are multiple SR-MPLS TE tunnel protection mechanisms. FRR (Fast Reroute) constructs a virtual node to convert multiple identical route advertisement nodes into a single route advertisement node, and then computes the backup next hop of the virtual node based on the TI-LFA algorithm. In this way, traffic can be quickly switched when a fault occurs.

What is the name of this protection mechanism?

Answer:

Explanation:

TI-LFA

Explanation:

✓ TI-LFA (Topology Independent Loop-Free Alternate) is an enhanced Fast Reroute (FRR) mechanism used in SR-MPLS networks.

✓ How TI-LFA Works:

A virtual node is created, aggregating multiple route advertisements.

Backup paths are precomputed using Segment Routing (SR) SIDs.

When a link failure occurs, traffic is rerouted in <50ms without waiting for IGP convergence.

□ Reference: Huawei HCIE Datcom - TI-LFA and SR-MPLS TE Protection

NEW QUESTION # 20

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