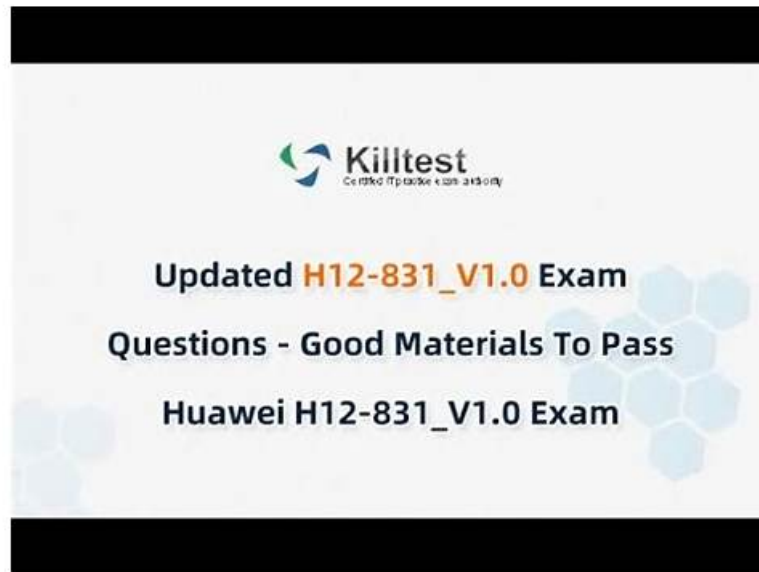


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Huawei HCIP-Datacom-Advanced Routing & Switching Technology V1.0 Sample Questions (Q19-Q24):

NEW QUESTION # 19

Which packets can Huawei equipment perform traffic suppression for? (Multiple choice)

- A. Broadcast
- B. unknown Unicast
- C. Known unicast
- D. Multicast

Answer: A,B,C,D

NEW QUESTION # 20

On the OSPF network shown in the figure, drag the values on the left to the correct positions so that:

* Traffic from PC1 to PC2 follows the path: PC1 -> R1 -> R3 -> R2 -> PC2

* Traffic from PC2 to PC1 follows the path: PC2 -> R2 -> R1 -> PC1

Which of the following OSPF cost values should be assigned to Cost-A, Cost-B, and Cost-C to achieve this routing behavior?

10		A
50		B
20		C

Answer:

Explanation:

10	50	A
50	10	B
20	20	C

Explanation:

* A = 50

* B = 10

* C = 20

Comprehensive and Detailed In-Depth Explanation:

Understanding OSPF Path Selection and Cost Calculation:

* OSPF selects the shortest path (lowest cost) to the destination.

* The OSPF cost is determined by the cumulative sum of interface costs along a path.

* By assigning specific costs to A, B, and C, we can influence OSPF's path selection to meet the desired routing behavior.

Step-by-Step Analysis of Required Traffic Flow:

1. Traffic from PC1 to PC2 must take the route:

PC1 -> R1 -> R3 -> R2 -> PC2

* To force traffic through R3, the cost of the direct link R1 -> R2 (Cost-A) must be higher than the alternative path via R3.

* We assign Cost-A = 50 (high cost) to discourage direct routing from R1 -> R2.

* The cost of R1 -> R3 (Cost-C) should be lower, so we assign Cost-C = 20.

* The cost of R3 -> R2 (default Cost-20) remains unchanged.

* Total cost via R3: 20 (R1->R3) + 20 (R3->R2) = 40, which is less than the direct link of 50, so OSPF prefers this path.

Traffic follows: PC1 -> R1 -> R3 -> R2 -> PC2

2. Traffic from PC2 to PC1 must take the route:

PC2 -> R2 -> R1 -> PC1

* We need to make R2 -> R1 (Cost-B) the best (lowest cost) route for return traffic.

* Assign Cost-B = 10 (low cost).

* This ensures that R2 prefers the direct path R2 -> R1 instead of R2 -> R3 -> R1 (which costs 20+20=40).

Traffic follows: PC2 -> R2 -> R1 -> PC1

Final Cost Assignments for Correct Routing Behavior:

Cost

Assigned Value

Reason

Cost-A (R1 -> R2)

50

High to discourage direct R1->R2 routing

Cost-B (R2 -> R1)

10

Low to ensure PC2->PC1 prefers direct R2->R1

Cost-C (R1 -> R3)

20

Medium to encourage R1->R3->R2 path

Key Takeaways:

* Higher OSPF cost discourages path selection.

* Lower OSPF cost encourages path selection.

* By manipulating OSPF cost values, we achieve asymmetric routing between PC1 and PC2.

* This aligns with OSPF path selection principles covered in HCIP-Datacom certification.

HCIP-Datacom-Advanced Routing & Switching Technology References:

* Huawei HCIP-Datacom Official Certification Guide, Chapter on OSPF Cost Calculation and Path Selection.

* Huawei Enterprise Networking Training Materials, OSPF Path Optimization Techniques.

* Huawei Datacom Configuration Guide, OSPF Cost and Traffic Engineering.

NEW QUESTION # 21

A certain park deployed both IPv4 and IPv6 networks for service testing, and IS-IS was run to achieve network interconnection.

IS-IS routing protocol has good scalability and is widely used in existing networks.

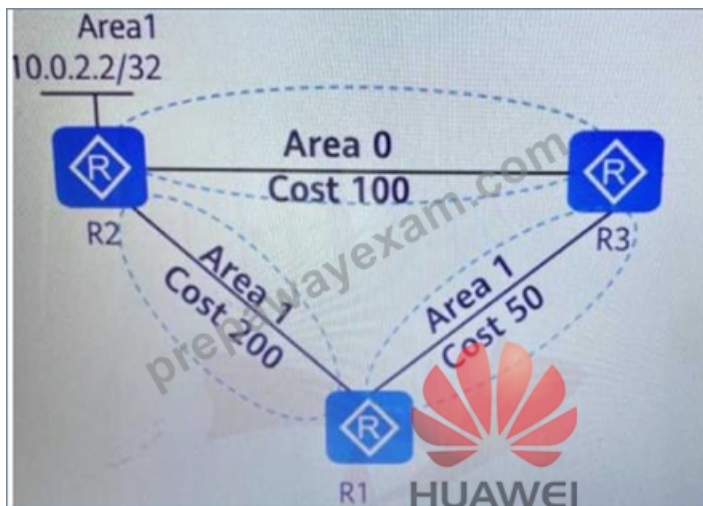
Regarding IS-IS scalability, which of the following statements are correct? (Multiple choice)

- A. IS-IS uses TLV structure to construct messages, which makes IS-IS more flexible and expandable
- B. IS-IS needs to add TLV to carry Pv6 address information in order to support PV6
- C. For IS-IS, adding new features only needs to add a new TLV
- D. NLPID is a new TLV of IS-IS to support IPv6

Answer: A,B,C

NEW QUESTION # 22

As shown in the figure, all interfaces of the router enable DSPF. The cost value of the link is marked in the figure. R2 The LoopbackD interface is advertised in area 1, then the cost of R1 reaching 10.2/32 is?



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

Answer: C

NEW QUESTION # 23

What is the flooding scope in OSPFv3 for the LSA in the entire autonomous system?

- A. As-external-LSA
- B. Link-LSA
- **C. Intra-Area-Prefix-LSA**
- D. Inter-Area-Prefix-LSA

Answer: C

NEW QUESTION # 24

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