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## Huawei HCIE-Datacom V1.0 Sample Questions (Q170-Q175):

### NEW QUESTION # 170

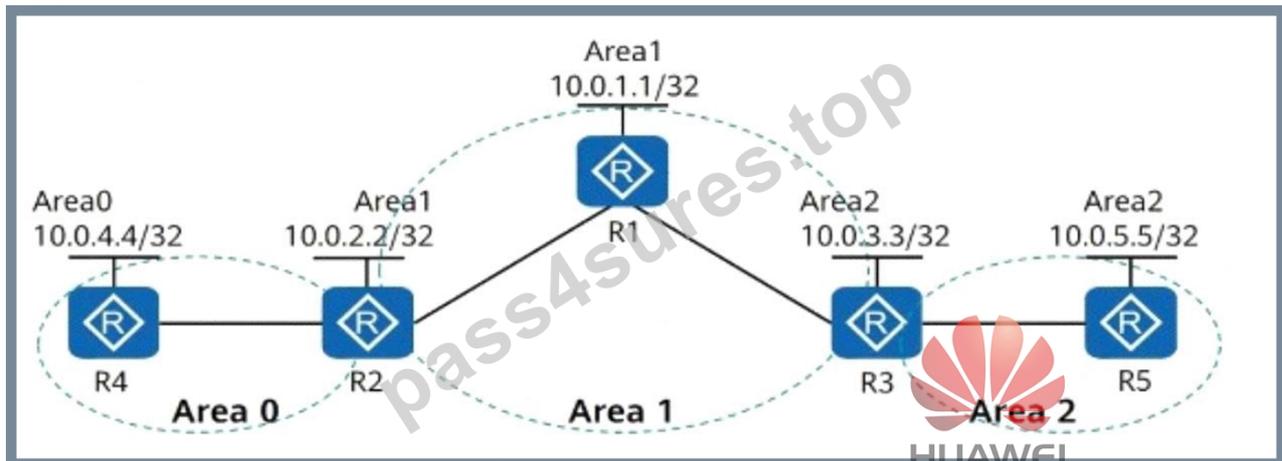
What are the problems with manually creating static VXLAN tunnels in campus networks? Multi-select

- A. VTEP can only learn remote MAC addresses in a way that relies on data flooding
- B. Although the static VXLAN tunnel mode can support distributed gateway application scenarios, the configuration workload is large and the configuration adjustment is complex
- C. Static VLAN tunnel also uses related protocols on the control plane, which will cause equipment resource loss
- D. N devices to establish static VXLAN tunnels, you need to manually configure up to  $N(N-1)/2$  tunnels, the amount of configuration is large

Answer: A,B,D

### NEW QUESTION # 171

In the following figure, OSPF is enabled on all router interfaces. The IP addresses marked in the figure belong to Loopback0 of the routers.



The Loopback0 addresses of R1 and R2 are advertised in Area 1, the Loopback0 address of R4 is advertised in Area 0, and the Loopback0 addresses of R3 and R5 are advertised in Area 2. Given this, which of the following IP addresses can ping each other?

- A. 10.0.4.4 and 10.0.2.2
- B. 10.0.2.2 and 10.0.3.3
- C. 10.0.3.3 and 10.0.5.5
- D. 10.0.2.2 and 10.0.5.5

Answer: B

Explanation:

Understanding OSPF Multi-Area Routing

# OSPF (Open Shortest Path First) is a link-state routing protocol that uses a hierarchical area design for scalability. # OSPF Areas in the Diagram:

\* Area 0 (Backbone Area): Contains R4 (Loopback 10.0.4.4/32).

\* Area 1: Contains R1 (Loopback 10.0.1.1/32) and R2 (Loopback 10.0.2.2/32).

\* Area 2: Contains R3 (Loopback 10.0.3.3/32) and R5 (Loopback 10.0.5.5/32).

\* R1 and R2 connect Area 1 to Area 0.

\* R1 and R3 connect Area 1 to Area 2.

How OSPF Advertises Routes Across Areas

# Intra-area communication (within the same area) is always possible.# Inter-area communication is possible if the ABR (Area Border Router) correctly advertises routes.# OSPF does NOT automatically advertise routes from one non-backbone area (e.g., Area 2) to another (e.g., Area 0) unless explicitly allowed.

Analysis of the Answer Choices:

# A. 10.0.3.3 and 10.0.5.5 (Incorrect)

\* Both R3 (10.0.3.3) and R5 (10.0.5.5) are in Area 2.

\* R3 and R5 can communicate directly, but OSPF rules require an Area Border Router (ABR) to share routing information between areas.

\* Since no information is provided about inter-area route redistribution, we cannot confirm that R3 and R5 can reach each other.

# B. 10.0.2.2 and 10.0.5.5 (Incorrect)

\* R2 (10.0.2.2) is in Area 1, and R5 (10.0.5.5) is in Area 2.

\* R2 does NOT have direct OSPF reachability into Area 2.

# C. 10.0.2.2 and 10.0.3.3 (Correct)

\* R2 (10.0.2.2) is in Area 1, and R3 (10.0.3.3) is in Area 2.

\* R1 connects both Area 1 and Area 2, meaning R2 and R3 can communicate via R1.

\* R1 is the ABR (Area Border Router) between Area 1 and Area 2, so it will advertise routes from R3 to R2 and vice versa.

# D. 10.0.4.4 and 10.0.2.2 (Incorrect)

\* R4 (10.0.4.4) is in Area 0 (Backbone), and R2 (10.0.2.2) is in Area 1.

\* R2 does NOT connect directly to Area 0, so R2 does not learn routes from Area 0 unless R1 explicitly redistributes them.

\* No explicit information about route redistribution is provided.

# Reference: Huawei HCIE-Datcom Guide - OSPF Multi-Area Routing & ABR Role Real-World Application:

\* Enterprise WAN Networks: Multi-area OSPF is used to scale large enterprise networks while maintaining fast convergence.

\* Service Provider Networks: ABRs control route distribution, preventing unnecessary flooding of routing updates across areas.

### NEW QUESTION # 172

An SRv6 Policy can be either statically configured on a device or dynamically generated by the controller and then delivered to the device.

- A. TRUE
- B. FALSE

**Answer: A**

Explanation:

Understanding SRv6 (Segment Routing over IPv6) Policies

#What is an SRv6 Policy?

A traffic engineering (TE) mechanism used in SRv6-enabled networks.

Defines a set of Segment Routing (SR) paths that direct packets through a predefined set of waypoints.

Uses SRv6 SIDs (Segment Identifiers) instead of MPLS labels.

#How Can SRv6 Policies Be Configured?

#Static SRv6 Policy Configuration:

Manually configured by network administrators.

Used in predictable, fixed network paths.

#Dynamic SRv6 Policy Generation:

Created dynamically by an SDN controller (e.g., Huawei iMaster NCE).

The controller analyzes network conditions and adjusts paths automatically based on traffic load and link failures.

Why is the Answer TRUE?

#SRv6 policies can be configured manually or dynamically delivered by a controller.

#SDN-based SRv6 solutions improve network automation and traffic engineering efficiency.

Real-World Application:

Cloud Data Centers: Uses dynamic SRv6 policies for optimal traffic distribution.

5G Transport Networks: Uses SRv6 TE for low-latency service guarantees.

#Reference: Huawei HCIE-Datcom Guide - SRv6 Policy and SDN Integration

### NEW QUESTION # 173

Which of the following BGP attributes is not required in the Update message for a BGP route?

- A. AS\_PATH

- B. Local-Preference
- C. Origin
- D. WITH

Answer: B,D

#### NEW QUESTION # 174

The following description of the BGP route reflector is ?( Multiple choice questions).

- A. Cluster\_List is an optional non-staging property for ring protection within the cluster.
- B. The Originator\_ID attribute is generated by the Route Reflector (RR) for inter-cluster ring protection.
- C. The route learned from the client, all non-clients and clients published to this RR.
- D. A network of bones is divided into multiple reflection clusters, each of which configures the other RRs as non-clients, and establishes an IBGP full connection between the RRs.

Answer: C,D

#### NEW QUESTION # 175

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