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HCIE-Datacom-Carrier (Written) V1.0



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Product Version

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Question: 1

Why is SRv6 particularly beneficial for cloud bearer networks?

- A. It enforces VLAN-only forwarding
- B. It reduces the number of IPv4 routes
- C. It allows dynamic service chaining and flexible path programming
- D. It requires all nodes to use static tunnels

Answer: C

Question: 2

What does MP-BGP enable in IPv6 deployment?

- A. Dual-stack MPLS VPN transport
- B. Separate RIBs for IPv4 and IPv6
- C. OSPFv2 redistribution
- D. Fiber optic power adjustment

Answer: A

Question: 3

Where is HQoS especially critical in carrier-grade networks?

- A. In DCN management OSPF areas
- B. On aggregation and access nodes carrying diverse traffic profiles
- C. At PE-CE BGP session configurations
- D. In multicast control plane signaling

Answer: B

Question: 4

How does EVPN over SRv6 improve network flexibility?

- A. By creating deterministic static MPLS tunnels
- B. By requiring RSVP-TE signaling
- C. By forcing VLAN-based forwarding at every hop
- D. By using IPv6-based segment identifiers for service chaining and forwarding

Answer: D

Question: 5

Where is the fronthaul segment located in a 5G transport network architecture?

- A. Between CU and DU
- B. Between RRU and DU
- C. Between core network and aggregation
- D. Between PE and CE routers

Answer: B

Question: 6

Which two solutions help build SR-MPLS TE tunnels across different ASes?
(Choose TWO.)

- A. SR-TE Policy stitching
- B. BGP-LS route distribution
- C. VLAN segmentation
- D. IPv6 static routing

Answer: A,B

Question: 7

An operator wants to optimize latency-sensitive services over an SR-MPLS network without manual LSP creation. Which three Flex Algo features should be used?
(Choose THREE.)

- A. Automatic SR topology building
- B. Minimum latency constraint Flex Algo
- C. Fixed static routing tables
- D. Disjoint path selection
- E. RSVP-TE signaling replacement

Answer: A,B,D

Question: 8

Why is authentication used in IS-IS?

- A. To increase the BGP route reflection
- B. To encrypt OSPF Hello packets
- C. To verify the legitimacy of received IS-IS PDUs
- D. To enable MPLS RSVP signaling

Answer: C

Question: 9

What is the primary function of IGP Fast Reroute (FRR) in high-reliability networks?

- A. Enable OSPF multi-area redistribution
- B. Quickly reroute traffic around link or node failures
- C. Encrypt IGP routing updates
- D. Assign static backup links

Answer: B

Question: 10

Which challenge does EVPN DCI mainly address?

- A. Extension of L2 services across multiple data centers
- B. Dynamic routing between different client VLANs
- C. Establishment of IPSEC tunnels for WAN traffic
- D. Broadcast suppression in 5G networks

Answer: A

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