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300-510
Implementing Cisco
Service Provider
Advanced
Routing Solutions

Certification Questions
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Cisco 300-510 Exam is a 90-minute test comprising of 60-70 questions. 300-510 exam is available in English and Japanese languages and can be taken at any Pearson VUE testing center. 300-510 exam is designed to assess the understanding and knowledge of candidates in implementing advanced routing technologies and solutions in a service provider environment.

Cisco 300-510 Exam Syllabus Topics:

Topic	Details
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Topic 1	<ul style="list-style-type: none"> • Multicast Source Discovery Protocol (MSDP) Operations • Intra-Domain Versus Inter-Domain Multicast Routing
Topic 2	<ul style="list-style-type: none"> • Any-Source Multicast (ASM) Versus Source Specific Multicast (SSM) • Troubleshoot Multicast Routing
Topic 3	<ul style="list-style-type: none"> • Topology-Independent Loop-Free Alternate (TI-LFA) • Routing Protocol Extensions (OSPF, IS-IS, BGP)
Topic 4	<ul style="list-style-type: none"> • Implement PIM-SM Operations • Describe Multicast Concepts • Compare Multicast Concepts
Topic 5	<ul style="list-style-type: none"> • Troubleshoot Route Manipulation For Igps • Compare Routing Policy Language And Route Maps
Topic 6	<ul style="list-style-type: none"> • Migration Procedures (SR Prefer And Mapping Server) • Describe Segment Routing Traffic Engineering
Topic 7	<ul style="list-style-type: none"> • Troubleshoot Route Manipulation For BGP • Hierarchical And Parameterized Structures
Topic 8	<ul style="list-style-type: none"> • Principles And Operations Of PIM-SM • Multicast Domains, Distribution Trees, And IGMP Operations
Topic 9	<ul style="list-style-type: none"> • Automated Steering And Coloring • PCE-Based Path Calculation • Control Plane Operations • Data Plane Operations
Topic 10	<ul style="list-style-type: none"> • Describe The BGP Scalability And Performance • Troubleshoot IS-IS Multilevel Operations (Ipv4 And Ipv6)

Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q159-Q164):

NEW QUESTION # 159

Refer to the exhibit.

R1 is directly connected to R2 and R3. R1 is in BGP AS 123, R2 is in BGP AS 2, and R3 is in BGP AS 3. Assume that there is no connectivity issue between R1, R2 and R1, R3. Which result between BGP peers R1, R2 and R1, R3 is true?

- A. The BGP session comes up between R1 and R2 and between R1 and R3.
- B. The BGP session does not come up between R1 and R2 and between R1 and R3.
- C. The BGP session comes up between R1 and R2, but not between R1 and R3.
- D. The BGP session comes up between R1 and R3, but not between R1 and R2.

Answer: A

NEW QUESTION # 160

Refer to the exhibit. IS-IS is the routing protocol on the network. After the team noticed excessive CPU usage on all routers, particularly routers R2 and R6, they configured route summarization on all routers. However, a network engineer noticed that summary routes and more specific routes are present in the routing table on R1.

Which action must the team take so that R1 receives only the summary routes?

- A. Configure R3 and R5 to perform summarization for Level 1 and Level 2 routers.
- B. **Configure R3 to perform summarization for Level 1 routers, and configure R6 to perform summarization for Level 2**

routers.

- C. Configure R2 and R4 to perform summarization for Level 1 routers.
- D. Configure R6 only to perform summarization for all routers.

Answer: B

NEW QUESTION # 161

Refer to the exhibit.

IS-IS is the routing protocol on the network. After the team noticed excessive CPU usage on all routers, particularly routers R2 and R6, they configured route summarization on all routers. However, a network engineer noticed that summary routes and more specific routes are present in the routing table on R1. Which action must the team take so that R1 receives only the summary routes?

- A. Configure R3 and R5 to perform summarization for Level 1 and Level 2 routers.
- B. **Configure R3 to perform summarization for Level 1 routers, and configure R6 to perform summarization for Level 2 routers.**
- C. Configure R2 and R4 to perform summarization for Level 1 routers.
- D. Configure R6 only to perform summarization for all routers.

Answer: B

NEW QUESTION # 162

Refer to the exhibit. A network engineer must correct the security policy on the EDGE_R router, which is connected to two Tier 1 ISPs. After another engineer added ip as-path access-list 11 permit 11 to EDGE_R, some routes from AS 11 and AS 4832 started to appear in the routing information base (RIB). Traffic control via Community options is disabled on both ISPs. How should the network engineer update the router configuration on EDGE_R so that only routes for AS 11 are permitted?

- A. Configure ip as-path prefix-list 11 permit _11\$.
- B. Configure ip as-path distribution-list 11 deny A[0-9]+S.
- C. Configure ip as-path access-list 11 permit _11_.
- D. **Configure ip as-path access-list 11 deny 4832\$.**

Answer: D

NEW QUESTION # 163

Refer to the exhibit. After a recent network implementation project, customer A is performing stress testing to verify network redundancy at the branch office connected to R4. When the link from R2 is shut down as shown, the SLA tracking object fails and the cost of the link between R2 and R4 increases to 100. However, a traceroute operation from a PC in the Branch office shows that traffic to HQ is still routed via R2. Which solution corrects the problem and optimizes traffic flow via R3 without creating operational overhead?

- A. **Redistribute routes from BGP to OSPF as type E1.**
- B. Configure two OSPF processes on R2 and R3 and redistribute traffic between them.
- C. Use multiarea adjacency to extend Area 10 to the link between R2 and R3.
- D. Create a virtual channel from R3 to R4.

Answer: A

NEW QUESTION # 164

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