Cisco

Exam Questions 300-510
Implementing Cisco Service Provider Advanced Routing Solutions (SPRI)

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NEW QUESTION 1

Refer to the exhibit. A network operator is working to filter routes from being advertised that are covered under an aggregate announcement. The receiving router of the aggregate announcement block is still getting some of the more specific routes plus the aggregate. Which configuration change ensures that only the aggregate is announced now and in the future if other networks are to be added?

A. Configure the summary-only keyword on the aggregate command
B. Set each specific route in the AGGRO policy to drop instead of suppress-route
C. Filter the routes on the receiving router
D. Set each specific route in the AGGRO policy to remove instead of suppress-route

Answer: A

NEW QUESTION 2

Refer to the exhibit. A network operator is getting the route for 10.11.11 0/24 from two upstream providers on XR3. The network operator must configure XR3 to force the 10.11.11.0/24 prefix to route via next hop of 10.0.0.9 as primary when available. Which of these can the operator use the routing policy language for, to enforce this traffic forwarding path?

A. weight of 0 on the prefix coming from 192.168.0.2
B. lower local preference on the prefix coming from 192.168.0.2
C. higher local preference on the prefix coming from 192.168.0.2
D. weight of 100 on the prefix coming from 192.168.0.1

Answer: C
NEW QUESTION 3
A network consultant is troubleshooting IS-IS instances to identify why a routing domain is having communication problems between the two instances. Which description of the possible cause of issues in the routing domain is true?

A. The same interface cannot be advertised in two different IS-IS instances  
B. The IS-IS “ISP” and “ISP2” instances are unrelated and unable to intercommunicate  
C. The configured IS-IS NSEL value is not allowing the routing systems to establish a neighborship  
D. The interface mode ip router is-is command was not included in the script

Answer: A

NEW QUESTION 4
For which reason can two devices fail to establish an OSPF neighbor relationship?

A. The two devices have different process IDs  
B. The two devices have different network types  
C. The two devices have different router IDs  
D. The two devices have the same area ID

Answer: B

NEW QUESTION 5
What can be used to determine a path from the head-end to a tail-end router when implementing SR-TE with a head-end, with little information on the network topology?

A. traffic controller  
B. path computation engine  
C. tail-end router  
D. SNMP server

Answer: B

NEW QUESTION 6
You have configured MSDP peering between two autonomous systems that pass traffic between two sites, but the peering has failed to come up. Which task do you perform to begin troubleshooting the problem?

A. Verify that multicast has been disabled globally  
B. Verify that PIM-DM is configured on the source interface  
C. Verify that both source interfaces are reachable from both peers  
D. Verify that the two MSDP peers allow asymmetric routing

Answer: C

NEW QUESTION 7
Refer to the exhibit. Why is neighbor 10.1.5.5 stuck in “2WAY” state?

A. Router ID 10.1.5.5 is not reachable from R2  
B. OSPF authentication has failed between R2 and 10.1.5.5  
C. It is an expected behavior when OSPF network type is broadcast  
D. OSPF parameters (Area ID or hello interval) are mismatched between R2 and 10.1.5.5

Answer: C

NEW QUESTION 8
Refer to the exhibit. An engineer is addressing an IS-IS design issue which is running within the topology. All links are running on FastEthernet, except the link between R5 and R4, which is Gigabit Ethernet. Which statement about the design is true?

A. R4 prefers to reach R5 using R1 as the next hop  
B. All links have equal cost if the default metric is used  
C. R5 prefers to use R4 as the next hop for all routes  
D. R1 prefers to use R5 as the next hop to reach R4  

Answer: B

NEW QUESTION 9
You have configured routing policies on a Cisco IOS XR device with routing policy language. Which two statements about the routing policies are true? (Choose two.)

A. The routing policies affect BGP-related routes only.  
B. If you make edits to an existing routing policy without pasting the full policy into the CLI, the previous policy is overwritten.  
C. You can change an existing routing policy by editing individual statements.  
D. The routing policies are implemented in a sequential manner.  
E. The routing policies are implemented using route maps.

Answer: CD

NEW QUESTION 10
Refer to the exhibit. Routers R1 and R2 cannot form a neighbor relationship, but the network is otherwise configured correctly and operating normally. Which two statements describe the problem? (Choose two.)

A. The two routers are in the same area  
B. The two routers are in different subnets  
C. The two routers have password mismatch issues  
D. The two routers have the same network ID  
E. The two routers are in different areas

Answer: BE

NEW QUESTION 11
Refer to the exhibit. P1 and PE3 Cisco IOS XR routers are directly connected and have this configuration applied. The BGP session is not coming up. Assume that there is no IP reachability problem and both routers can open tcp port 179 to each other. Which two actions fix the issue? (Choose two.)

A. Change MD5 to HMAC-SHA1-12
B. Change MD5 to HMAC-ESP
C. Change MD5 to SHA-1
D. Change MD5 to HMAC-MD5
E. Remove the send and accept lifetime under key 1

Answer: AD

NEW QUESTION 12

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Refer to the exhibit. CE1 is the gateway router into the provider network via PE1. A network operator must inject a default route into OSPF area 0. All devices inside area 0 must be able to reach PE1. Which configuration achieves this goal?

A. 
```conf
#CE1
router ospf 1
  default-information originate always
```

B. 
```conf
#CE1
ip route 0.0.0.0 0.0.0.0 GigabitEthernet0/2 10.0.0.14
router ospf 1
  default-information originate
```

Answer: B

NEW QUESTION 13

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