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Cisco 300-510 certification exam is designed to test the knowledge and skills of IT professionals in implementing advanced routing solutions for service providers. 300-510 exam is intended for individuals who are interested in pursuing a career in the field of networking and specifically in the service provider industry. Passing 300-510 exam is a prerequisite for obtaining the Cisco Certified Specialist - Service Provider Advanced Routing Implementation certification.

Cisco 300-510 Exam is a certification test that validates an individual's knowledge and skills in implementing advanced routing solutions on a service provider network. 300-510 exam is designed for professionals who are seeking to demonstrate their expertise in configuring and troubleshooting advanced routing technologies in service provider environments. The Cisco 300-510 exam is a part of the Cisco Certified Specialist - Service Provider Advanced Routing Implementation certification.

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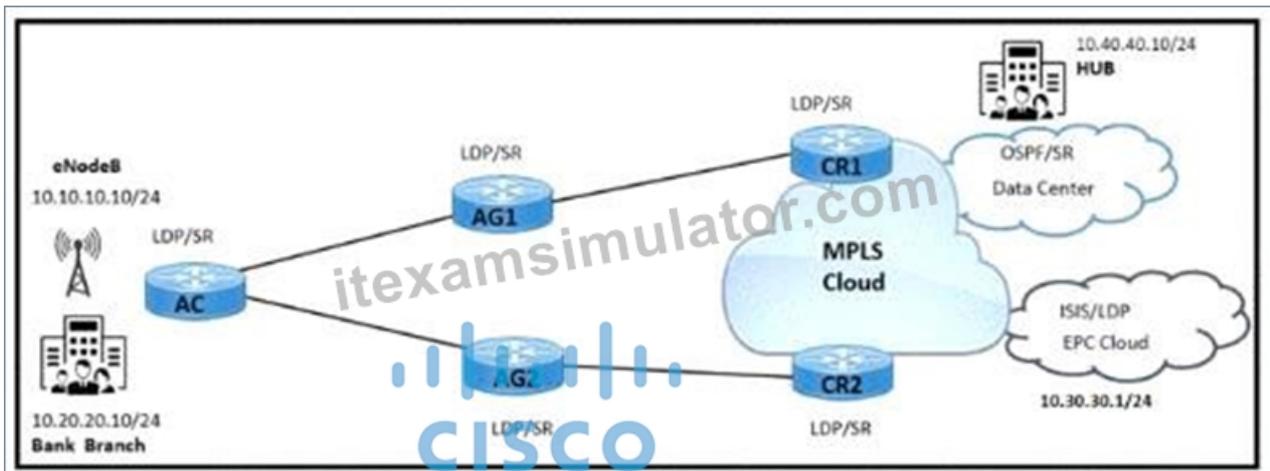
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Passing the Cisco 300-510 exam demonstrates that a network engineer has the knowledge and skills required to implement advanced routing solutions for service providers. Implementing Cisco Service Provider Advanced Routing Solutions certification is highly valued in the industry and can lead to better job opportunities and increased earning potential. To succeed in 300-510 Exam, candidates should have hands-on experience with advanced routing technologies and a deep understanding of networking concepts.

## Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q235-Q240):

NEW QUESTION # 235



Refer to the exhibit. A service provider has LDP and segment routing running in the network. Mobility traffic is carried through LDP and enterprise traffic is carried through segment routing. Which configuration must be implemented to connect the bank branch with the HUB site on routers?

- A. Configure segment-routing sr-prefer prefix-list on CR1 and CR2 routers for 10.20.20.10/24.
- B. Configure segment-routing Sr-prefer prefix-list on AG1 and AG2 router for 10.10.10.10/24.
- C. Enable segment-routing Mpls Sr-prefer on AG1 and AG2 routers for 10.0.0.0/8.
- D. Enable segment-routing Mpls Sr-prefer on CR1 and CR2 routers for 10.0.0.0/8.

**Answer: A**

#### NEW QUESTION # 236

Refer to the exhibit.

PE-A	PE-B
vrf definition Customer-A	vrf definition Customer-A
rd 65000:1111	rd 65000:1111
route-target export 65000:1111	route-target export 65000:1111
route-target import 65000:1111	route-target import 65000:1111
address-family ipv4	address-family ipv4
mdt default 233.0.0.1	mdt default 233.0.0.1
mdt data 233.0.0.2 0.0.0.0 threshold 100	mdt data 233.0.0.3 0.0.0.0 threshold 100
exit-address-family	exit-address-family

Which tree does multicast traffic follow?

- A. MDT default
- B. source tree
- C. MDT voice
- D. shared tree

**Answer: A**

#### NEW QUESTION # 237

Refer to the exhibit.

Router 1:

```
interface TenGigE0/1
  point-to-point
  address-family ipv4 unicast
    fast-reroute per-prefix
    Fast-reroute per-prefix ti-lfa
```

```
R1#show isis fast-reroute 172.16.200.9/32
```

```
L2 172.16.200.9/32 [30/115]
  via 192.168.20.1, TenGigE0/1, R2, SRGB Base: 16000, Weight: 0
  FRR backup via 192.168.30.1, TenGigE0/2, R3, SRGB Base: 16000,
  Weight: 0, Metric 40
```

Router 1 is connected to router 2 on interface TenGigE0/1. Which interface provides the alternate path to 172.16.200.9/32 when the link between router 1 and router 2 goes down?

- A. A backup path must be statically installed
- B. A primary path must be manually installed
- C. TenGigE0/2 interface provides the alternate path
- D. TenGigE0/1 interface provides the alternate path

Answer: C

#### NEW QUESTION # 238

Refer to the exhibit. While applying the configurations on two routers an engineer notices that OSPF adjacency between them remains down. Through the ping test the engineer confirmed that both routers have Layer 3 reachability between them. Which action should the engineer take to make the adjacencies to full?

R1	R2
<pre>interface FastEthernet0/0   ip address 192.168.1.1   255.255.255.0   ip ospf authentication   ip ospf authentication-key Cisco   ip ospf 1 area 0   speed auto   duplex auto</pre>	<pre>interface FastEthernet0/0   ip address 192.168.1.2   255.255.255.0   ip ospf authentication-key Cisco   ip ospf 1 area 0   speed auto   duplex auto</pre>
<pre>router ospf 1   log-adjacency-changes   area 0 authentication   message-digest</pre>	<pre>router ospf 1   log-adjacency-changes   area 0 authentication   message-digest</pre>

- A. Enable OSPF just inside the router OSPF process not in the interfaces of any router
- B. Delete the area 0 authentication message-digest command from the OSPF process in R1
- C. Enter the command `ip ospf authentication` in R2 interface
- D. Delete the area 0 authentication message-digest command from the OSPF process in R2

Answer: C

#### NEW QUESTION # 239

Refer to the exhibit.



```

PE1# show mpls forwarding-table
Local  Outgoing  Prefix          Bytes Label  Outgoing  Next  Hop
Label  Label      or Tunnel Id    Switched     interface
16     No Label   172.16.1.1/32   0            drop
17     No Label   192.168.12.12/32 0            drop
20     No Label   192.168.2.2/32  0            drop
21     No Label   10.1.212.0/24   0            drop
22     No Label   10.1.211.0/24   0            drop
23     No Label   192.168.11.11/32 0            drop
24     No Label   172.16.11.0/24  0            drop
25     No Label   172.16.14.0/24  0            drop

PE2#show ip route 192.168.1.1
Routing entry for 192.168.1.0/24
Known via "bgp 100", distance 200, metric 0
Tag 1, type internal
Last update from 192.168.1.12, 20:10:38 ago
Routing Descriptor Blocks:
* 192.168.1.12, from 192.168.12.12, 20:10:38 ago
Route metric is 0, traffic share count is 1
AS Hops 5

PE1#show ip route 192.168.11.11
Routing entry for 192.168.11.11/32
Known via "ospf 100", distance 110, metric 2, type
intra area
Last update from 10.1.111.11 on Gi0/1 00:04:34 ago
Routing Descriptor Blocks:
* 10.1.111.11, from 192.168.11.11, 00:04:34 ago
via GigabitEthernet0/1
Route metric is 2, traffic share count is 1
  
```

VPN users that are connected to PE routers are facing network issues. Traffic that originates from CE1 drops before reaching CE2. An engineer finds no outgoing traffic statistics on PE1 and PE2 routers toward CE devices and finds that the PE1 router is running the older software image. Which action must be implemented to resolve the issues?

- A. Enable LDP protocol on PE1 and PE2 routers.
- **B. Enable CEF-based forwarding on PE1 router.**
- C. Advertise P1 router loopback on PE1 in OSPF.
- D. Advertise PE2 router loopback on PE1 in OSPF.

**Answer: B**

**NEW QUESTION # 240**

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