

➤ **Vendor: Cisco**

➤ **Exam Code: 350-501**

➤ **Exam Name: Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR)**

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QUESTION 123

ASN 65001 is peering with ASN 65002 to exchange IPv6 BGP routes. All routes that originate in ASN 65001 have a standard community value of 65001:100, and ASN 65002 is allowed to advertise only 2001 :db8:aaaa::/48. An engineer needs to update the ASN 65001 route-filtering configuration to meet these conditions:

- Looped routes into ASN 65001 and routes that have traversed 10 or more ASNs must be denied.
- Routes accepted into ASN 65001 must be assigned a community value of 65001:200.

Which configuration must the engineer apply to the ASN 65001 border router?

- route-policy PEER-AS65002-IN
 - > if as-path length ge 10 or as-path passes-through '65001' or community matches-any (65001:100) then drop
 - endif
 - if destination in (2001:db8:aaaa::/48) then done
 - else drop
 - endif
 - set community (65001:200)
 - end-policy
- route-policy PEER-AS65002-IN
 - if as-path length ge 10 and as-path passes-through '65001' or community matches-any (65001:100) then drop
 - endif
 - if destination in (2001:db8:aaaa::/48) then pass
 - endif
 - set community (65001:200)
 - end-policy
- route-policy PEER-AS65002-IN
 - if as-path length ge 10 then drop
 - endif
 - if as-path passes-through '65001' or community matches-any (65001:100) then drop
 - endif
 - if destination in (2001:db8:aaaa::/48) then pass
 - endif
 - set community (65001:200)
 - end-policy
- route-policy PEER-AS65002-IN
 - if as-path length ge 10 then drop
 - endif
 - if as-path passes-through '65001' or community matches-any (65001:100) then drop
 - endif
 - if destination in (2001:db8:aaaa::/48) then set community (65001:200)
 - endif

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```

route-policy PEER-AS65002-IN
  if as-path length ge 10 then
    drop
  endif
  if as-path passes-through '65001' or community matches-any (65001:100) then
    drop
  endif
  if destination in (2001:db8:aaaa::/48) then
    set community (65001:200)
  else
    drop
  endif
end-policy

```

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Answer: D

QUESTION 124

Refer to the exhibit. Which task completes the configuration?

```

R1
router bgp 65000
  router-id 192.168.1.1
  no bgp default ipv4-unicast
  neighbor 192.168.1.2 remote-as 65001

```

- A. Specify the maximum number of prefixes that R1 receives from neighbor 192.168.1.2.
- B. Specify the source interface in the neighbor statement.
- C. Specify the activate neighbor 192.168.1.2 under the IPv4 address family.
- D. Specify the local-as value in the neighbor statement.

Answer: C

QUESTION 125

Refer to the exhibit. Router 1 is missing the route for the router 2 loopback 0. What should the engineer change to fix the problem?

Router 1: Interface gigabitethernet0/1 ip address 192.168.1.1 255.255.255.0 router ospf 1 network 192.168.1.0 0.0.0.255 area 1	Router 2: Interface gigabitethernet0/1 ip address 192.168.1.2 255.255.255.0 Interface loopback 0 ip address 192.168.2.1 255.255.255.0 router ospf 2 network 192.168.1.2 0.0.0.0 area 2 network 192.168.2.1 0.0.0.0 area 1
---	---

- A. the area numbers on Router 1 and Router 2 to be similar
- B. the wildcard mask network statement in OSPF of Router 2

- C. Router 1 to be an ABR
- D. the hello timers on Router 1 and Router 2 to be different

Answer: A

QUESTION 126

What is a role of NSO?

- A. It automates the deployment of access points with its built-in wireless LAN controller.
- B. It manages WAN infrastructure using a virtual switch.
- C. It provides full lifecycle management of a device.
- D. It resides on a hypervisor that runs the Windows OS.

Answer: C

QUESTION 127

Which utility must be used to locate MPLS faults?

- A. QoS
- B. MPLS LSP ping
- C. MPLStraceroute
- D. EEM

Answer: C

QUESTION 128

Refer to the exhibit. A network engineer with an employee id: 3812:12:993 has started to configure router R1 for IS-IS as shown.

Which additional configuration must be applied to configure the IS-IS instance to advertise only network prefixes associated to passive interfaces?

```
R1(config)# router isis areal
R1(config-router)# net 49.0001.0000.0000.000b.00

R1(config-router)# interface loopback 0
R1(config-if)# ipv6 address 2001:0000:1001:1000::1/128
R1(config-if)# exit

R1(config)# interface Ethernet 1/2
R1(config-if)# ipv6 address 2001:0000:1001:100A::1/64
R1(config-if)# ipv6 router isis areal
R1(config-if)# exit
```

- R1(config)# router isis area1
R1(config-router)# passive-interface loopback 0
R1(config-router)# address-family ipv6
R1(config-router-af)# advertise passive-only
- R1(config-router)# address-family ipv6
R1(config-router-af)# advertise passive-only
- R1(config)# router isis area1
R1(config-router)# loopback 0 passive-interface
R1(config-router)# address-family ipv6
R1(config-router-af)# prc-interval 20
- R1(config)# router isis area1
R1(config-router)# passive-interface loopback 0

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: A

QUESTION 129

What does DWDM use to combine multiple optical signals?

- A. frequency
- B. IP protocols
- C. time slots
- D. wavelength

Answer: D

QUESTION 130

Refer to the exhibit. An engineer is implementing Auto-RP and reviewing the configuration of the PE-A. Which configuration permits Auto-RP messages to be forwarded over this interface?

PE-A:

```
vrf definition Customer-A
 rd 65000:1111
 route-target export 65000:1111
 route-target import 65000:1111
 !
 address-family ipv4
 mdt default 233.15.38.120
 mdt data 233.15.38.121 0.0.0.0 threshold 100
 mdt mtu 5000
 !
 interface GigabitEthernet0/0
 vrf forwarding Customer-A
 ip address 10.10.10.1 255.255.255.252
 !
 ip multicast-routing vrf Customer-A
```

- A. PE-A(config-if)#ip pim sparse-mode
- B. PE-A(config-if)#no ip pim bsr-border
- C. PE-A(config-if)#ip igmp version 3
- D. PE-A(config-if)#ip pim sparse-dense-mode

Answer: D

QUESTION 131

Which protocol does a Cisco MPLS TE tunnel use to maintain paths within the core?

- A. RSVP
- B. VTP
- C. STP
- D. RPF

Answer: A

QUESTION 132

Refer to the exhibit. What is the effect of this configuration?

```
R1

ip cef distributed
mpls ldp graceful-restart
interface GigabitEthernet 0/0/1
    mpls ip
    mpls label protocol ldp
```

- A. R1 supports a graceful restart operation on the peer, even if graceful restart is disabled on the peer.
- B. R1 supports a peer that is configured for LDP SSO/NSF as the peer recovers from an outage.
- C. R1 failovers only to a peer that is configured for LDP SSO/NSF.
- D. R1 failovers to any peer.

Answer: C

QUESTION 133

Refer to the exhibit. What reestablishes the OSPF neighbor relationship between Router 1 and Router 2?

<pre>Router 1: Interface gigabitethernet0/1 ip address 192.168.1.1 255.255.255.0 ip ospf hello-interval 1 router ospf 1 network 192.168.1.0 0.0.0.255 area 1</pre>	<pre>Router 2: Interface gigabitethernet0/1 ip address 192.168.1.2 255.255.255.0 ip ospf hello-interval 2 router ospf 2 network 192.168.1.2 0.0.0.0 area 1</pre>
--	--

- A. authentication is added to the configuration
- B. correct wildcard mask is used on Router 2
- C. OSPF process IDs match
- D. hello intervals match

Answer: D