Vendor: Cisco

Exam Code:350-501

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

Version: Demo

QUESTION 1

Refer to the exhibit.

```
R2#sh cins neighbors detail
Tag TEST:
System Id    Interface    SNPA              State  Holdtime        Type  Protocol
R1           Fa0/0        ca01.2178.0008    Up     89              L1L2 IS-IS
 Area Address(es): 49
 Uptime: 00:03:29
 NSF capable
 Interface name: FastEthernet0/0
```

On R1, which output does the show isis neighbors command generate?

A. Tag TEST:
System Id	Type	Interface	IP Address	State	Holdtime	Circuit Id
R2	L1	Fa0/0	UP	7		R2.01
R2	L2	Fa0/0	UP	9		R2.01

B. Tag TEST:
System Id	Type	Interface	IP Address	State	Holdtime	Circuit Id
R2	L2	Fa0/0	UP	7		R2.01
R2	L2	Fa0/0	UP	9		R2.01

C. Tag TEST:
System Id	Type	Interface	IP Address	State	Holdtime	Circuit Id
R2	L2	Fa0/0	UP	9		R2.01

D. Tag TEST:
System Id	Type	Interface	IP Address	State	Holdtime	Circuit Id
R2	L1	Fa0/0	UP	7		R2.01

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 2

The NOC engineer in a service provider network must configure an SNMP community on switch SW with these security attributes:

Event messages must be authenticated with the MD5 algorithm and encrypted. The remote user name for the SNMP server at 172.16.10.1 is AuthNocUser. Which configuration must the engineer apply to the switch?

A.
```
SW(config)# snmp-server group group3 v3 priv
SW(config)# >snmp-server user AuthNocUser group3 remote 172.16.10.1  v3 auth md5 Cisco@123 priv des 56
```

B.
```
SW(config)# snmp-server group group2 v3 auth
SW(config)# snmp-server user AuthNocUser group2 remote 172.16.10.1 v3 auth md5 password1
```

C.
```
SW(config)# snmp-server group group1 v3 noauth
SW(config)# snmp-server user AuthNocUser group1 remote 172.16.10.1
SW(config)# snmp-server host 172.16.10.1 informs version 3 noauth remoteuser config
```

D.
```
SW(config)# snmp-server community comaccess ro 4
SW(config)# snmp-server enable traps snmp authentication
SW(config)# snmp-server host cisco.com version 2c public
```

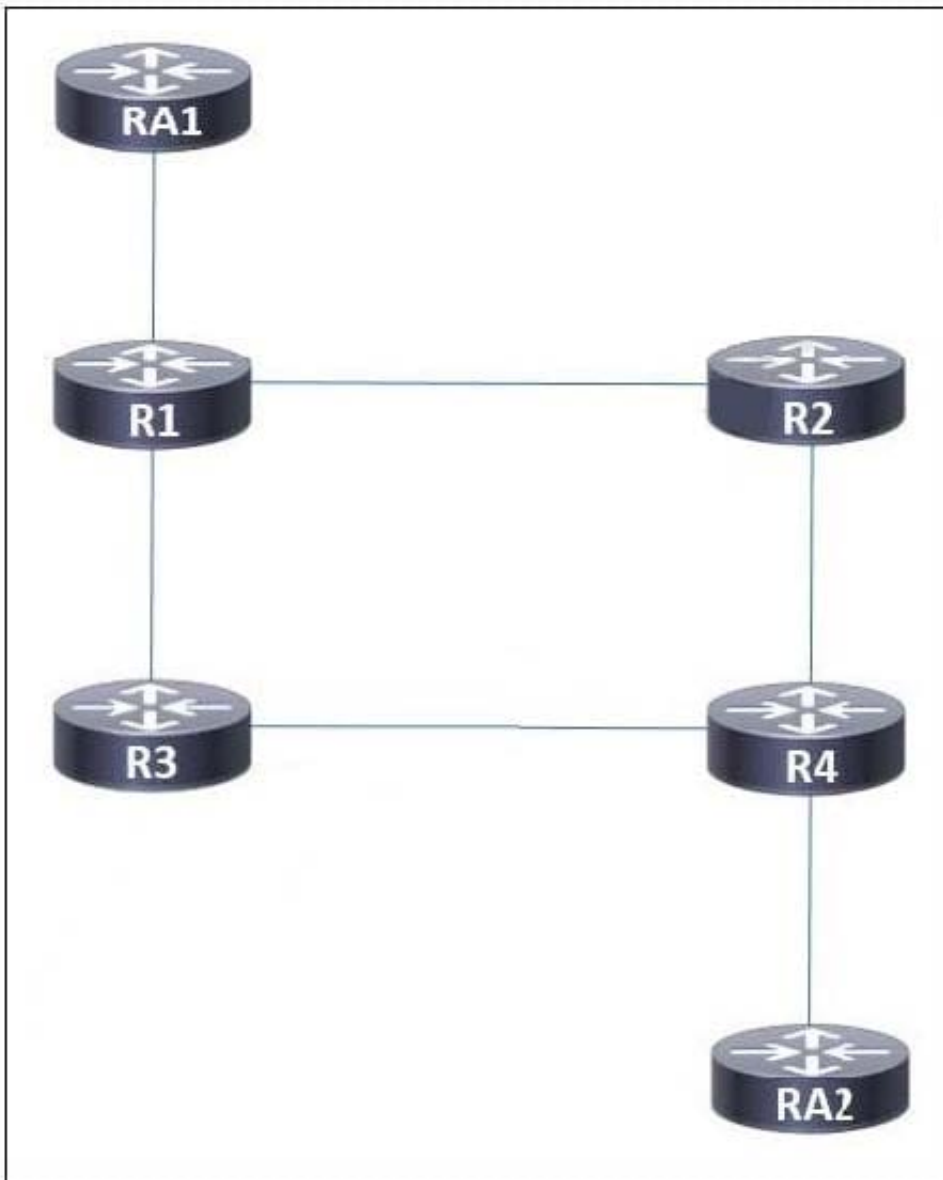A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 3

Refer to the exhibit.

A network administrator implemented MPLS routing between routers R1, R2, R3, and R4. AToM is configured between R1 and R4 to allow Layer 2 traffic from hosts on RA1 and RA2. A targeted MPLS session is established between R1 and R4. Which additional action must the administrator take on all routers so that LDP synchronization occurs between connected LDP sessions?

A. Disable the MPLS LDP IGP sync holddown.

B. Configure OSPF or IS-IS as the routing protocol.

C. Configure EIGRP as the routing protocol using stub areas only.

D. Enable MPLS LDP sync delay timers.

Correct Answer: A

QUESTION 4

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.

Correct Answer: C

QUESTION 5

```
route-map ciscotest deny 10
    match ip address 25
route-map ciscotest permit 20
    match ip address prefix-list ciscotestpfxlist
    set tag 5
route-map ciscotest permit 30
```

Refer to the exhibit. A client wants to filter routes to a BGP peer to limit access to restricted areas within the network. The engineer configures the route map ciscotest to filter routes from the BGP neighbor. The engineer also sets a tag that will be used for QoS in the future. Which task must be performed to complete the implementation?
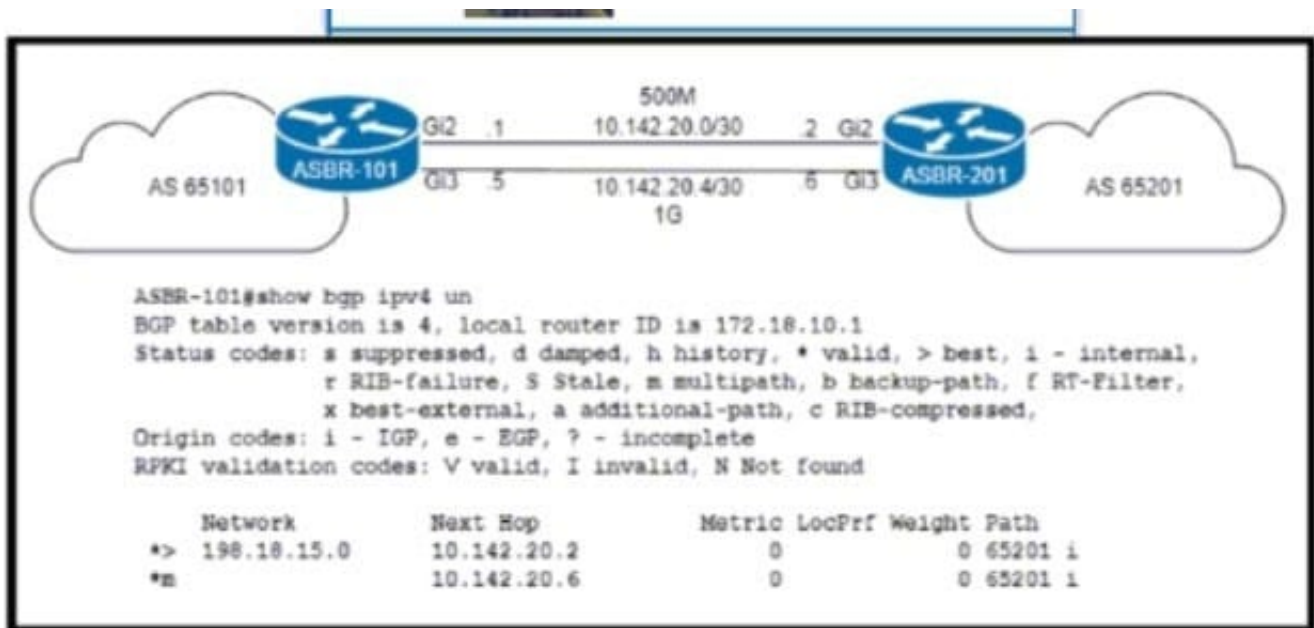
A. Create a route map, configure BGP with an IPv4 address family, and activate the neighbor.

B. Attach the new route map to the BGP neighbor statement in the inbound direction.

C. Create a policy map named ciscotest and apply it to inbound traffic on the link that is directly connected to the BGP neighbor.

D. Add a route map statement with sequence 40 that links a BGP community to the routing protocol.

Correct Answer: B

QUESTION 6

Refer to the exhibit an engineer working for a private telecommunication company with an employee Id: 4065:96:080 upgrades the WAN link between routers ASBR-101 and ASBR- 201 to 1Gb by Installing a new physical connection between the Gi3 Interfaces.

```
ASBR-101#show bgp ipv4 un
BGP table version is 4, local router ID is 172.18.10.1
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
              r RIB-failure, S Stale, m multipath, b backup-path, f RT-Filter,
              x best-external, a additional-path, c RIB-compressed,
Origin codes: i - IGP, e - EGP, ? - incomplete
RPKI validation codes: V valid, I invalid, N Not found

     Network          Next Hop          Metric LocPrf Weight Path
 *>  198.18.15.0      10.142.20.2            0             0 65201 i
 *m                   10.142.20.6            0             0 65201 i
```

Which BGP attribute must the engineer configure on ASBR-201 so that the existing WAN link on Gi2 Is maintained as a backup?

○ onfigure terminal
  ip prefix-list ALLOWED_PREFIXES seq 5 permit 198.18.15.0/24

  route-map AS65101-OUT permit 10
  match ip address prefix-list ALLOWED_PREFIXES
  set as-path prepend 65101 65101

  router bgp 65201
  address-family ipv4
  neighbor 10.142.20.1 route-map AS65101-OUT out
  end

○ configure terminal
  ip prefix-list ALLOWED_PREFIXES seq 5 permit 198.18.15.0/24

  route-map AS65101-OUT permit 10
  match ip address prefix-list ALLOWED_PREFIXES
  set as-path prepend 65101 65101

✓ configure terminal
  ip prefix-list ALLOWED_PREFIXES seq 5 permit 198.18.15.0/24

  route-map AS65101-OUT permit 10
  match ip address prefix-list ALLOWED_PREFIXES
  set metric 100

  router bgp 65201
  address-family ipv4
  neighbor 10.142.20.1 route-map AS65101-OUT out
  end

○ configure terminal
  ip prefix-list ALLOWED_PREFIXES seq 5 permit 198.18.15.0/24

  route-map AS65101-OUT permit 10
  match ip address prefix-list ALLOWED_PREFIXES
  set metric 100

  router bgp 65201
  address-family ipv4
  neighbor 10.142.20.5 route-map AS65101-OUT out
  end

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

QUESTION 7

Which service is a VNF role?

A. Network

B. Firewall

C. Storage

D. Compute

Correct Answer: B

QUESTION 8
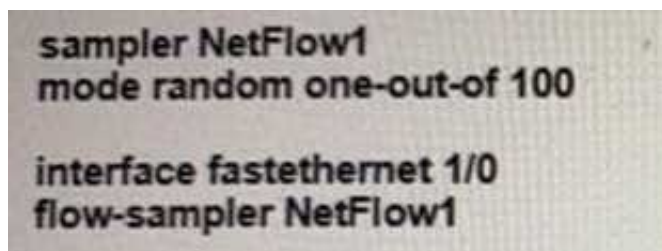
How does Cisco DNA Center enhance network automation?

A. It allows network administrators to quickly deploy Cisco Layer 2 devices without requiring STP and broadcast transport.

B. It allows network administrators to reduce inconsistencies when they deploy and validate network configurations.

C. It allows network administrators to reduce the number of VRFs in a multi customer environment by automatically implementing a single VLAN per customer.

D. It allows network administrators to combine voice and data networks into a single topology without manual configuration.

Correct Answer: B

QUESTION 9

A network engineer is configuring Flexible NetFlow and enters these commands What are two results of implementing this feature instead of traditional NetFlow? (Choose two.)


```
sampler NetFlow1
mode random one-out-of 100

interface fastethernet 1/0
flow-sampler NetFlow1
```

A. CPU and memory utilization are reduced.

B. Only the flows of top 100 talkers are exported.

C. The data export flow is more secure

D. The number of packets to be analyzed are reduced.

E. The accuracy of the data to be analyzed is improved.

Correct Answer: AD

QUESTION 10

Which two steps must a service provider consider when adding multicast support to the existing MPLS L3VPN? (Choose two.)

A. Using SSM for data MDT helps to minimize the number of group addresses needed in the core

B. Using default MDT results in a reduction of multicast routing states in the core

C. All PEs must be configured as RPs inside of each customer VRF to minimize impact of the RPF lookups

D. Bandwidth may be wasted on PEs as a result of only using the default MDT

E. Forwarding customer multicast traffic only via the default MDT optimizes PE utilization

Correct Answer: BD

Reference: https://www.nanog.org/meeting-archives/nanog44/presentations/Sunday/McBride_iptv_N44.pdf

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QUESTION 11

A network engineer is testing an automation platform that interacts with Cisco networking devices via NETCONF over SSH. In accordance with internal security requirements:

1.

NETCONF sessions are permitted only from trusted sources in the 172.16.20.0/24 subnet.

2.

CLI SSH access is permitted from any source.

Which configuration must the engineer apply on R1?

A. configure terminalhostname R1 ip domain-name mydomain.comcrypto key generate rsaip ssh version 1access-list 1 permit 172.16.20.0 0.0.0.255netconf ssh acl 1 line vty 0 4transport input ssh

end

B. configure terminalhostname R1 ip domain-name mydomain.comcrypto key generate rsaip ssh version 2access-list 1 permit 172.16.20.0 0.0.0.255access-list 1 permit anynetconf ssh line vty 0 4access-class 1 in transport input sshend

C. configure terminalhostname R1 ip domain-name mydomain.comcrypto key generate rsaip ssh version 1

access-list 1 permit 172.16.20.0 0.0.0.255

access-list 2 permit any

netconf ssh

line vty 0 4

access-class 2 in

transport input ssh

end

D. configure terminalhostname R1 ip domain-name mydomain.comcrypto key generate rsaip ssh version 2access-list 1 permit 172.16.20.0 0.0.0.255netconf ssh acl 1 line vty 0 4transport input sshend

Correct Answer: D

QUESTION 12

DRAG DROP

A network engineer is adding an additional 10Gbps link to an existing 2x10Gdps LACP-based LAG to augment its capacity. Network standards require a bundle interface to be taken out of service if one of its member links goes down, and the new link must be added with minimal impact to the production network. Drag and drop the tasks that the engineer must perform from the left into the sequence on the right. Not all options are used.

Select and Place:

Answer Area

Execute the channel-group number mode active command to add the 10Gbps link to the existing bundle.	step 1
Execute the channel-group number mode command to add the 10Gbps link to the existing bundle.	step 2
Execute the lacp min-bundle 3 command to set the minimum number of ports threshold.	step 3
Validate the network layer of the 10Gbps link.	step 4
Execute the channel-group number mode auto command to add the 10Gbps link to the existing bundle.	
Validate the physical and data link layers of the 10Gbps link.	

Correct Answer:

Answer Area

Execute the channel-group number mode command to add the 10Gbps link to the existing bundle.

Execute the channel-group number mode auto command to add the 10Gbps link to the existing bundle.

Validate the network layer of the 10Gbps link.

Validate the physical and data link layers of the 10Gbps link.

Execute the channel-group number mode active command to add the 10Gbps link to the existing bundle.

Execute the lacp min-bundle 3 command to set the minimum number of ports threshold.