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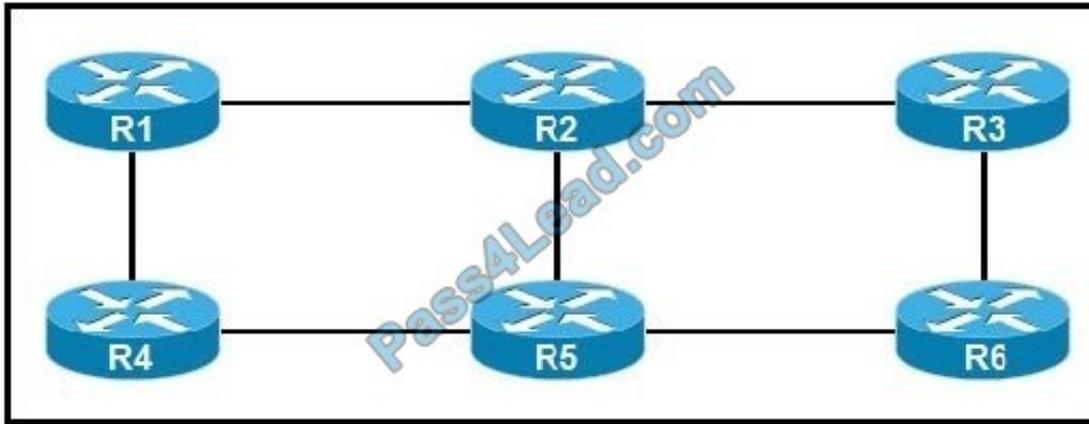
Exam Code:350-501

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

Version:Demo

QUESTION 1

Refer to the exhibit.



You are configuring an administrative domain in the given multi-vendor environment with PIM-SM. Which feature can you implement so that devices can dynamically learn the RP?

- A. BSR
- B. BIDIP-PIM
- C. Auto-RP
- D. SSM

Correct Answer: A

BSR is a standard and included in PIMv2, unlike AutoRP which is a Cisco proprietary protocol. Although Auto-RP has been adopted by some vendors, it's still not an "industry standard"

QUESTION 2

A regional operation center deployed SQL servers that were synchronized with the company's backend storage servers by using a 768 Kbps link. Although network congestion is not a frequent issue, the VoIP service suffers a serious degradation. Which two technologies can be implemented to improve the quality of the customer's VoIP traffic? (Choose two)

- A. A decrease in the wan interface buffer size
- B. LLQ for management traffic
- C. cRTP
- D. TCP/UDP filtering based on NBAR
- E. TCP traffic prioritization

F. LFI

G. TCP starvation

Correct Answer: CF

QUESTION 3

Which protocol is used to convey configuration information to cable modems in a DOCSIS network?

A. DHCP

B. RPC

C. NETCONF

D. TFTP

Correct Answer: D

QUESTION 4

An engineer working for a private service provider with employee Id: 1234:56:789 is configuring a Cisco device to redistribute OSPF into BGP. Which task enables the device to filter routes?

A. Configure an access list and reference it with the redistribute command.

B. Configure a route map and reference it with the redistribute command.

C. Configure a prefix list and associate it to the BGP peer interface.

D. Configure a distribute list and associate it to the BGP peer interface.

Correct Answer: B

QUESTION 5

In an MPLS network, which protocol can be used to distribute a Segment Prefix?

A. LDP

B. EIGRP

C. OSPF

D. RSVP-TE

Correct Answer: C

QUESTION 6

Which component is similar to an EVPN instance?

- A. router distinguisher
- B. MPLS label
- C. IGP router ID
- D. VRF

Correct Answer: D

QUESTION 7

A company needs to improve the use of the network resources that is used to deploy internet access service to customers on separate backbone and internet access network. Which two major design models should be used to configure MPLS L3VPNs and internet service in the same MPLS backbone? (Choose two.)

- A. Carriage of full internet routes in a VPN, in the case of internet access VPNS
- B. Internet routing through global routing on a PE router.
- C. Internet access routing as another VPN in the ISP network.
- D. Internet access through leaking of internet routed from the global table into the L3VPN VRF
- E. Internet access for global routing via a separate interface in a VRF

Correct Answer: CE

<http://etutorials.org/Networking/MPLS+VPN+security/Part+II+Advanced+MPLS+VPN+Security+Issues/Chapter+4+Secure+MPLS+VPN+Designs/Internet+Access/>

QUESTION 8

Refer to the exhibit.

A network engineer is implementing a standard customer route-policy on ASBR1 with these requirements:

1.
It must accept only customer-assigned prefixes
2.
It must preserve customer advertised BGP communities
- 3.

It must set the local-preference to 110 for all prefixes

4.

It must attach the ORIGINATION-PE and LOCAL-CITY communities to all accepted prefixes.

Which route policy must the engineer implement on ASBR1 to satisfy the requirements?

- A. `route-policy BGP-CUSTOMER-IN($CUSTOMER_PREFIX)
if destination in $CUSTOMER_PREFIX then
done
else
drop
endif
set local-preference 110
set community ORIGINATION-PE additive
set community LOCAL-CITY additive
end-policy`
- B. `route-policy BGP-CUSTOMER-IN($CUSTOMER_PREFIX)
if destination in $CUSTOMER_PREFIX then
pass
else
drop
endif
set local-preference 110
set community ORIGINATION-PE
set community LOCAL-CITY additive
end-policy`
- C. `route-policy BGP-CUSTOMER-IN($CUSTOMER_PREFIX)
if destination in $CUSTOMER_PREFIX then
done
else
drop
endif
set local-preference 110
set community ORIGINATION-PE
set community LOCAL-CITY additive
end-policy`
- D. `route-policy BGP-CUSTOMER-IN($CUSTOMER_PREFIX)
if destination in $CUSTOMER_PREFIX then
pass
else
drop
endif
set local-preference 110
set community ORIGINATION-PE additive
set community LOCAL-CITY additive
end-policy`

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 9

Refer to the exhibit.

```
R1
ip multicast-routing
ip pim rp-candidate GigabitEthernet1/0/0

interface g1/0/0
  ip pim sparse-mode

R2
ip multicast-routing
ip pim bsr-candidate GigabitEthernet1/0/0

interface g1/0/0
  ip pim sparse-mode
```

An engineer configured multicast routing on client's network. What is the effect of this multicast implementation?

- A. R2 floods information about R1 throughout the multicast domain.
- B. R2 is unable to share information because the ip pim autorp listener command is missing.
- C. R1 floods information about R2 throughout the multicast domain.
- D. R2 is elected as the RP for this domain.

Correct Answer: B

QUESTION 10

DRAG DROP Refer to the exhibit.

```
R1#show ip bgp
BGP table version is 3, local router ID is 50.50.50.1
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
               r RIB-failure, s Stale
Origin codes: i - IGP, e - EGP, ? - incomplete
```

	Network	Next Hop	Metric	LocPrf	Weight	Path
*>	22.22.22.22/32	50.50.50.2	0		100	500 ?
*		40.40.40.2	0	200	0	400 ?
*		30.30.30.2	0		0	300 300 ?
*		20.20.20.2	0		0	200 ?

```
R1#show ip bgp 22.22.22.22
BGP routing table entry for 22.22.22.22/32, version 3
Paths: (4 available, best #1, table Default-IP-Routing-Table)
Flag: 0x820
  Advertised to update-groups:
    1
500
  50.50.50.2 from 50.50.50.2 (50.50.50.2)
    Origin incomplete, metric 0, localpref 100, weight 100, valid, external, best
400
  40.40.40.2 from 40.40.40.2 (40.40.40.2)
    Origin incomplete, metric 0, localpref 200, valid, external
300 300
  30.30.30.2 from 30.30.30.2 (30.30.30.2)
    Origin incomplete, metric 0, localpref 100, valid, external
200
  20.20.20.2 from 20.20.20.2 (20.20.20.2)
    Origin incomplete, metric 0, localpref 100, valid, external
```

An engineer wants to determine which paths are best, second best, third best, and fourth best. Drag and drop the peer addresses on the left to the corresponding BGP best-path selection order on the right.

Select and Place:

20.20.20.2

Best Path

30.30.30.2

2nd Best Path

40.40.40.2

3rd Best Path

50.50.50.2

4th Best Path

Correct Answer:

50.50.50.2

40.40.40.2

20.20.20.2

30.30.30.2

QUESTION 11

Refer to the exhibit.

```

router bgp 100
  address-family ipv4 unicast
  address-family vpnv4 unicast
  !
  neighbor 10.19.20.20
    remote-as 1
    address-family ipv4 unicast
  !
  !
  !
  !
  commit
  !

```

An engineer is trying to implement BGP configuration on a router. Which configuration error prevents the ASBR from establishing a BGP neighborhood to a directly connected BGP speaker?

- A. The routing policy is absent for this Cisco IOS XR eBGP instance.
- B. The TCP session parameters are not specified.
- C. The VPNv4 address family interferes with the BGP IPv4 address family negotiations.
- D. The IPv4 address family configuration under neighbor configuration-mode must be removed.

Correct Answer: B

https://www.cisco.com/c/en/us/td/docs/routers/xr12000/software/xr12k_r41/routing/configuration/guide/routing_cg41xr12k_chapter1.html bgp router-id comes under TCP session parameters

QUESTION 12

Refer to the exhibit.

```
R1# configure terminal
R1(config)# router isis area2
R1(config-router)# metric-style wide level-1
```

An engineer is configuring multi-topology IS-IS for IPv6 on router R1. Which additional configuration must be applied to complete the task?

- A. R1# configure terminal
R1(config)# router isis area2
R1(config-router)# address-family ipv6
R1(config-router-af)# multi-topology
- B. R1# configure terminal
R1(config)# router isis area1
R1(config-router)# metric-style wide level-2
R1(config-router)# address-family ipv6
R1(config-router-af)# multi-topology
- C. R1# configure terminal
R1(config)# router isis area2
R1(config-router)# metric-style wide
R1(config-router)# address-family ipv6
R1(config-router-af)# multi topology
- D. R1# configure terminal
R1(config)# router isis area1
R1(config-router)# metric-style wide level-1
R1(config-router)# address-family ipv6
R1(config-router-af)# multi topology

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

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