



300-510^{Q&As}

Implementing Cisco Service Provider Advanced Routing Solutions
(SPRI)

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QUESTION 1

DRAG DROP

An engineer is troubleshooting end-to-end customer traffic across an MPLS VPN service provider network.

Which tasks should the engineer use to solve the routing issues?

Drag and drop the table types from the left onto the most useful troubleshooting tasks/router types on the right. (Not all options are used.)

Select and Place:

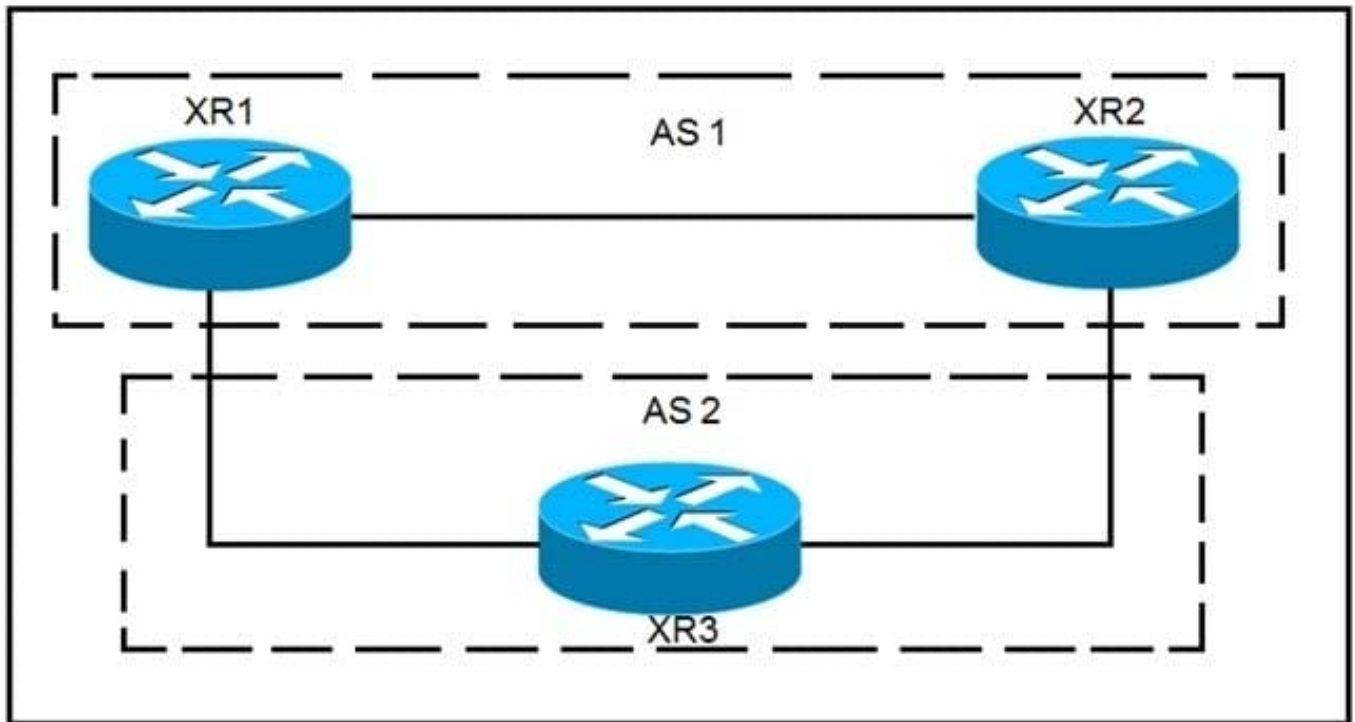
LFIB	on the CE router to check for routing errors
LIB	on the P router to see LDP functionality
RIB	on PE and P router to verify expected forwarding
FIB	on VRF of the PE-CE connection
adjacency table	

Correct Answer:

	RIB
	LIB
	LFIB
FIB	adjacency table

**QUESTION 2**

Refer to the exhibit.



XR1 and XR2 are sending the prefix 10.11.11.0/24 to XR3. A configured policy on XR1 is incorrectly prepending AS path 11 11 12 12 onto this prefix. A network operator wants to add a policy onto XR3 that will not allow the falsely prepending prefix from being installed.

Which policy configuration applied to the XR3 neighbor configuration for XR1 can accomplish this requirement without impact to other or future received routes?



- A. route-policy NO_PREPEND
if as-path passes-through '11' then
pass
else
drop
endif
end-policy
- B. route-policy NO_PREPEND
if as-path prepends
drop
else
pass
endif
end-policy
- C. route-policy NO_PREPEND
if as-path passes-through '1' then
pass
else
drop
endif
end-policy
- D. route-policy NO_PREPEND
if as-path passes-through '11' then
drop
else
pass
endif
end-policy

A. Option A

B. Option B

C. Option C

D. Option D

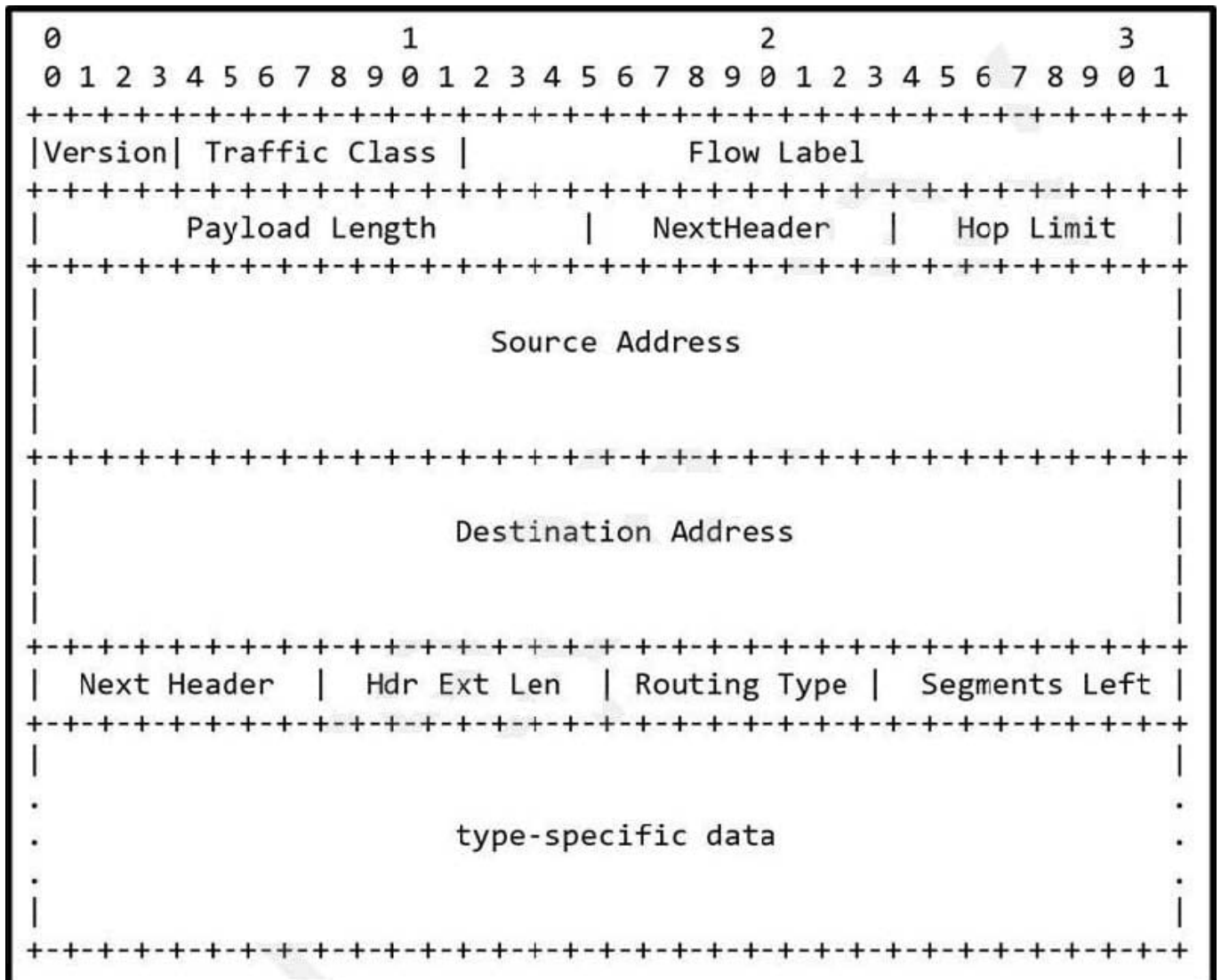
Correct Answer: D



Reference: https://www.cisco.com/c/en/us/td/docs/routers/crs/software/crs_r4-1/routing/command/reference/b_routing_cr41crs/b_routing_cr41crs_chapter_01000.html#wp3850885229

QUESTION 3

Refer to the exhibit.



The extension header of the IPv6 header is ignored when which value is equal to zero?

- A. Segments Left
- B. Hdr Ext Len
- C. Routing Type
- D. Next Header

Correct Answer: D



Reference: <https://www.ciscopress.com/articles/article.asp?p=31948>

QUESTION 4

Refer to the exhibit.

```
show ip route ospf

O    192.168.1.0/24 [110/11] via 172.16.14.1, 01:17:30, Ethernet0/0
O IA 192.168.2.0/24 [110/21] via 172.16.14.1, 00:49:23, Ethernet0/0
O IA 192.168.3.0/24 [110/21] via 172.16.14.1, 00:47:37, Ethernet0/0
O IA 192.168.20.0/24 [110/21] via 172.16.14.1, 00:49:08, Ethernet0/0
O IA 192.168.21.0/24 [110/21] via 172.16.14.1, 01:11:23, Ethernet0/0
O IA 192.168.22.0/24 [110/21] via 172.16.14.1, 01:11:13, Ethernet0/0
O IA 192.168.23.0/24 [110/21] via 172.16.14.1, 01:11:03, Ethernet0/0
O IA 192.168.32.0/24 [110/21] via 172.16.14.1, 00:47:50, Ethernet0/0
O IA 192.168.33.0/24 [110/21] via 172.16.14.1, 01:04:37, Ethernet0/0
O IA 192.168.34.0/24 [110/21] via 172.16.14.1, 00:02:26, Ethernet0/0
O IA 192.168.35.0/24 [110/21] via 172.16.14.1, 00:02:16, Ethernet0/0
O IA 192.168.36.0/24 [110/21] via 172.16.14.1, 00:02:06, Ethernet0/0
O IA 192.168.37.0/24 [110/21] via 172.16.14.1, 00:01:56, Ethernet0/0
O IA 192.168.38.0/24 [110/21] via 172.16.14.1, 00:01:43, Ethernet0/0
O IA 192.168.39.0/24 [110/21] via 172.16.14.1, 00:01:28, Ethernet0/0
```

An engineer applied the summarization configuration on R1 for four networks (192.168.20.0/24 to 192.168.23.0/24) in area 1 and eight networks (192.168.32.0/24 to 192.168.39.0/24) in area 2 to stop the flooding of all the customer routes. While checking the routing table of R2, the engineer noticed that R1 is still sending only specific routes to R2. Which configuration should the engineer apply on R1 to summarize routes?

- A. R1(config)# **router ospf 1**
R1(config-router)# **area 1 range 192.168.20.0 255.255.248.0**
R1(config-router)# **area 2 range 192.168.32.0 255.255.240.0**
- B. R1(config)# **router ospf 1**
R1(config-router)# **area 1 range 192.168.20.0 255.255.252.0**
R1(config-router)# **area 2 range 192.168.32.0 255.255.240.0**
- C. R1(config)# **router ospf 1**
R1(config-router)# **area 1 range 192.168.20.0 255.255.252.0**
R1(config-router)# **area 2 range 192.168.32.0 255.255.253.0**
- D. R1(config)# **router ospf 1**
R1(config-router)# **area 1 range 192.168.20.0 255.255.252.0**
R1(config-router)# **area 2 range 192.168.32.0 255.255.248.0**

A. Option A

B. Option B

C. Option C

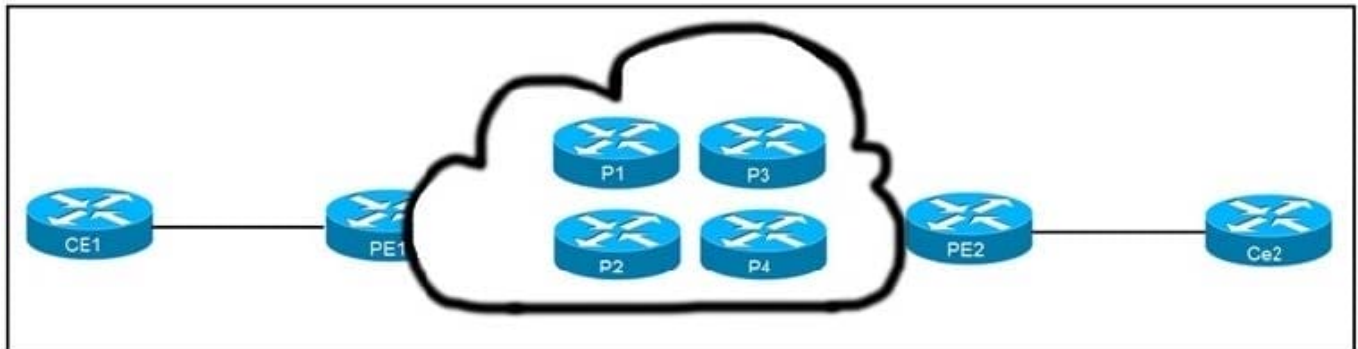
D. Option D



Correct Answer: D

QUESTION 5

Refer to the exhibit.



CE1 and CE2 cannot communicate through the service provider BGP peering is established between PE1 and PE2. IS-IS is the only routing protocol running in the service provider core. What step can be done to troubleshoot the issue?

- A. Switch the IGP running in the core from IS-IS to OSPF to support a Cisco MPLS TE tunnel from PE1 to PE2.
- B. Configure BGP between CE and PE routers.
- C. Confirm that IS-IS is running with metric-style narrow.
- D. Verify the MPLS LSPs.

Correct Answer: C

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