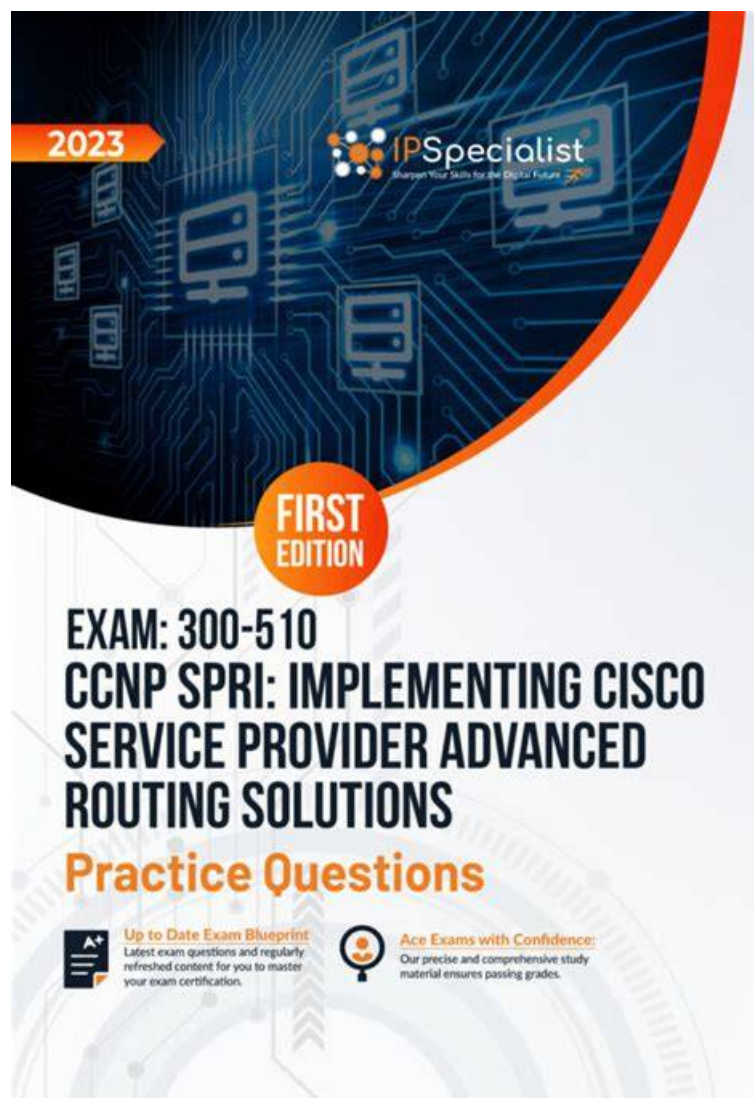


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300-510: First-grade Implementing Cisco Service Provider Advanced Routing Solutions New Real Test



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Cisco 300-510 Exam Syllabus Topics:

Section	Weight	Objectives

Topic 1: Unicast Routing	35%	- Troubleshoot OSPF multiarea operations (IPv4 and IPv6) - Troubleshoot BGP (eBGP and iBGP) • 1. Policy language • 2. Configurations • 3. Path selection • 4. Attributes - Compare OSPF and IS-IS routing protocols - Troubleshoot IS-IS operations - Implement and troubleshoot route filtering • 1. Prefix-lists • 2. Filter-lists - Troubleshoot route maps and routing policy language - Implement and troubleshoot redistribution
Topic 2: Routing Policy and Manipulation	20%	- Troubleshoot MPLS (LDP, LSP, label switching) - Implement and troubleshoot Segment Routing (SR-MPLS and SRv6) • 1. Prefix SIDs and Adjacency SIDs • 2. Flexible Algorithm - Describe CGNAT (NAT44, NAT64, MAP-T)
Topic 3: MPLS and Segment Routing	30%	- Describe Phantom RP - Describe multicast concepts (IGMPv3, MLD, PIM) - Identify and resolve multicast routing issues • 1. Rendezvous Point (RP) • 2. PIM neighbors • 3. Source registration
Topic 4: Multicast Routing	15%	

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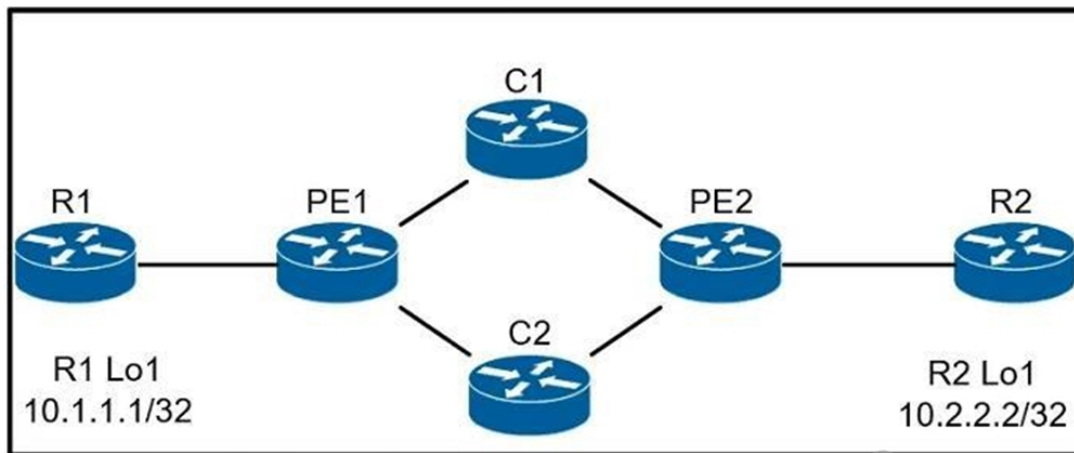
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Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q255-Q260):

NEW QUESTION # 255

Refer to the exhibits. A network operator is troubleshooting packet loss seen from the R1 loopback interface to the R2 loopback interface over the core network. The operator is attempting to identify the next leg in the path from PE1. Which interface and label path should the operator investigate next?



```
RP/0/0/CPU0:PE1#show ip route 10.2.2.2
```

```
Fri Jun 28 01:03:49.698 UTC
```

```
Routing entry for 10.2.2.2/32
```

```
Known via "bgp 1", distance 200, metric 0, type internal
```

```
Installed Jun 27 23:27:12.395 for 01:36:37
```

```
Routing Descriptor Blocks
```

```
10.0.0.33, from 192.168.0.7
```

```
Route metric is 0
```

```
No advertising protos.
```

```
RP/0/0/CPU0:PE1#
```

```
RP/0/0/CPU0:PE1#show mpls forwarding
```

```
Fri Jun 28 01:04:44.885 UTC
```

Local Label	Outgoing Label	Prefix or ID	Outgoing Interface	Next Hop	Bytes Switched
24000	Pop	192.168.0.2/32	Gi0/0/0/3	10.0.0.5	1644
24001	24000	192.168.0.4/32	Gi0/0/0/2	10.0.0.30	24647
	24000	192.168.0.4/32	Gi0/0/0/3	10.0.0.5	0
24002	Pop	192.168.0.6/32	Gi0/0/0/2	10.0.0.30	12412
24003	24001	192.168.0.7/32	Gi0/0/0/2	10.0.0.30	22359
	24001	192.168.0.7/32	Gi0/0/0/3	10.0.0.5	1473
24004	Pop	10.0.0.20/30	Gi0/0/0/3	10.0.0.5	0
24005	Pop	10.0.0.16/30	Gi0/0/0/2	10.0.0.30	0
	Pop	10.0.0.16/30	Gi0/0/0/3	10.0.0.5	0
24006	Pop	10.0.0.40/30	Gi0/0/0/2	10.0.0.30	0
24007	24002	10.0.0.32/30	Gi0/0/0/2	10.0.0.30	0
	24002	10.0.0.32/30	Gi0/0/0/3	10.0.0.5	7045024
24009	Unlabelled	10.1.1.1/32	Gi0/0/0/0	10.0.0.9	7037648

```
RP/0/0/CPU0:PE1#
```

- A. PE1 - Gi0/0/0/2 - forwarding label 24002
- B. PE1 - Gi0/0/0/3 - forwarding label 24002
- C. PE1 - Gi0/0/0/3 - forwarding label 24001
- D. PE1 - Gi0/0/0/2 - forwarding label 24001

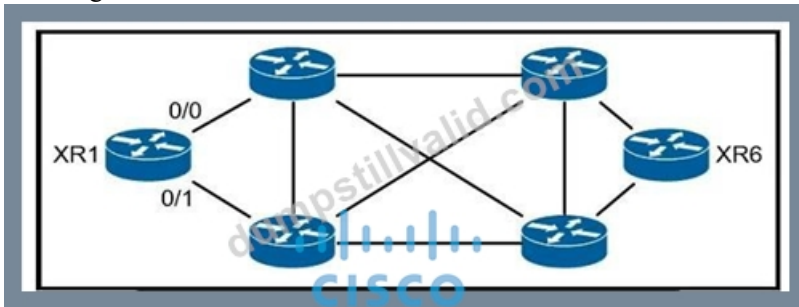
Answer: C

NEW QUESTION # 256

Refer to the exhibits. All links inside the network are configured at a default cost of one inside the fully converged OSPF domain.

Given the configuration from XR1, which interface does traffic from XR1 that is destined to the loopback interface of XR6 select for

the exiting interface?



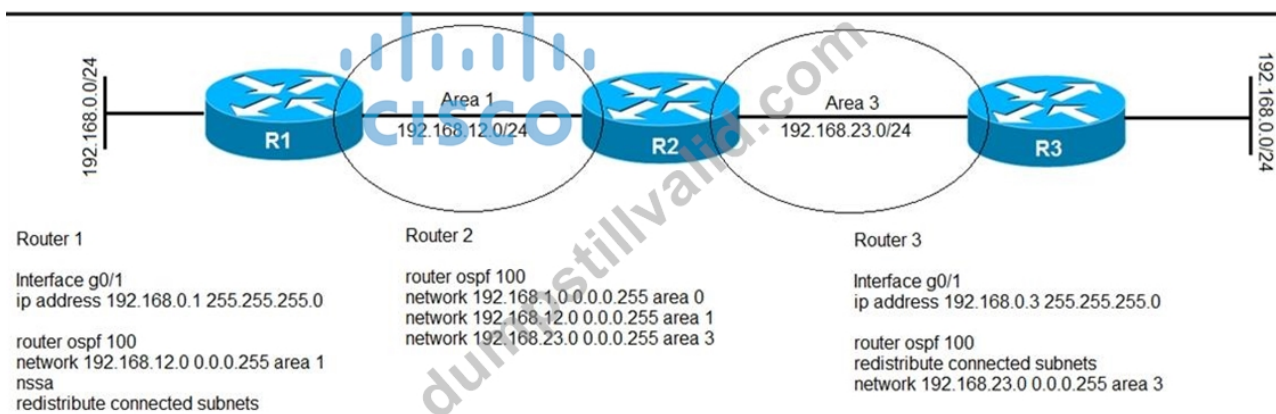
```
RP/0/0/CPU0:XR1#show run router ospf
router ospf 1
 log adjacency changes
 segment-routing mpls
 area 0
  mpls traffic-eng
  interface Loopback0
   passive enable
   prefix-sid index 1
  !
  interface GigabitEthernet0/0
   cost 2
   fast-reroute per-prefix
   fast-reroute per-prefix ti-lfa enable
   fast-reroute per-prefix tiebreaker node-protecting index 50
  !
  interface GigabitEthernet0/1
   cost 1
   fast-reroute per-prefix
   fast-reroute per-prefix ti-lfa enable
   fast-reroute per-prefix tiebreaker node-protecting index 100
  !
 !
 mpls traffic-eng router-id Loopback0
 !
```

- A. Interface GigabitEthernet 0/1. The tie breaker of the path cost being lower. The node index priority does not impact this selection process.
- B. Interface GigabitEthernet 0/0. The tier breaker of the path cost being lower. The node index priority does not impact this selection process.
- C. Interface GigabitEthernet 0/1. The tie breaker of the node index priority is lower and trumps the path cost.
- **D. Interface GigabitEthernet 0/0. The tie breaker of the node index priority is lower and trumps the path cost.**

Answer: D

NEW QUESTION # 257

Refer to the exhibit.



After troubleshooting an OSPF adjacency issue, routers 1, 2, and 3 have formed OSPF neighbor relationships. Which statement about the configuration is true?

- A. Router 2 receives a Type 7 LSAs from router 3 for its connected subnets
- B. Router 2 uses router 3 as the next hop for 192.168.0.0/24
- **C. Router 2 receives a Type 5 LSAs from router 1 for its connected subnets**
- D. Router 2 uses router 1 as the next hop for 192.168.0.0/24

Answer: C

NEW QUESTION # 258

Which two of the following are true regarding the BGP Prefix-Based outbound route filtering feature? (Choose two.)

- A. The outbound route filter can be defined in a Prefix list, Distribute list or Access lists.
- **B. IP multicast routes are not supported.**
- **C. Outbound route filtering is configured only on a per-address family basis.**
- D. Outbound route filtering can be configured for either iBGP or eBGP sessions.
- E. Outbound route filtering is more effective when a distance vector IGP is used.

Answer: B,C

NEW QUESTION # 259

An engineer wants to map a multicast IP address to a multicast MAC.
How many bits are used to make the conversion?

- A. lower-order 24 bits
- B. high-order 24 bits
- **C. low order 23 bits**
- D. higher-order 23 bits

Answer: C

NEW QUESTION # 260

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