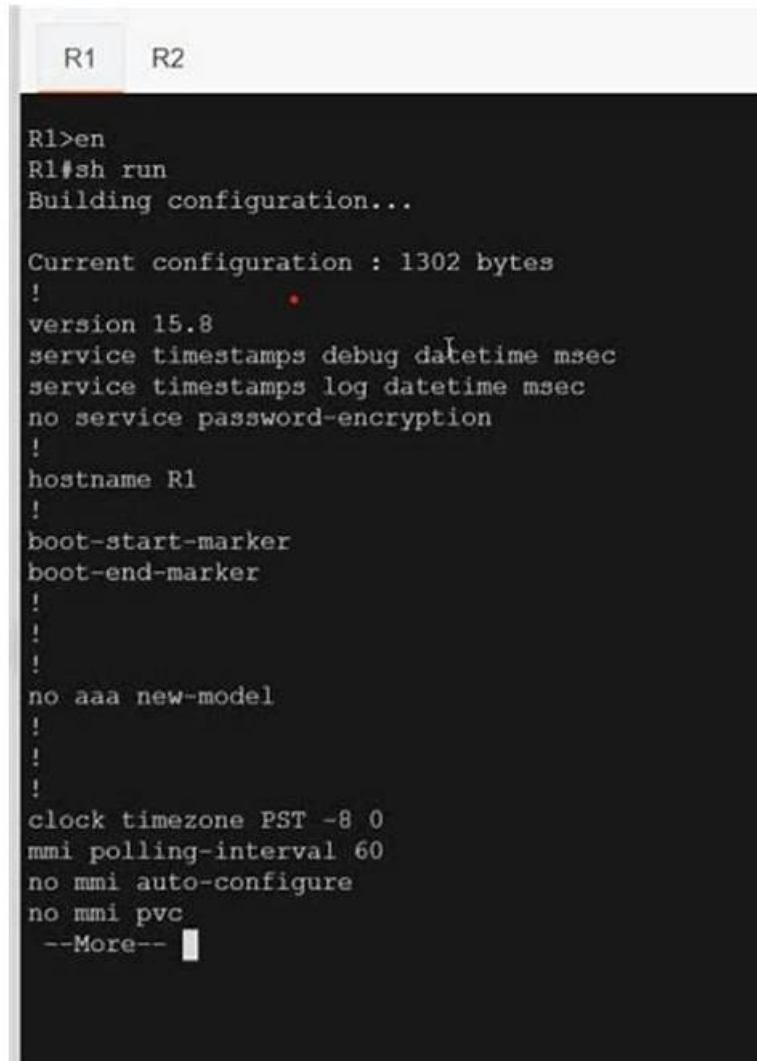


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```
R1 R2
R1>en
R1#sh run
Building configuration...

Current configuration : 1302 bytes
!
version 15.8
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R1
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
!
!
!
clock timezone PST -8 0
mmi polling-interval 60
no mmi auto-configure
no mmi pvc
--More--
```

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Cisco 300-510 Exam Topics:

Section	Weight	Objectives
MPLS and Segment Routing	25%	- Troubleshoot MPLS • LDP • LSP • Unified BGP • BGP free core • RSVP TE tunnels - Implement segment routing • Routing protocol extensions (OSPF, IS-IS, BGP) • SRGB and SRLB • Topology-Independent Loop-Free Alternate (TI-LFA) • Migration procedures (SR prefer and mapping server) - Describe segment routing traffic engineering • Automated steering and coloring • Policies (constraints, metrics, and attributes) • PCE-based path calculation - Describe segment routing v6 (SRv6) • Control plane operations • Data plane operations

Unicast Routing	35%	- Compare OSPF and IS-IS routing protocols - Troubleshoot OSPF multiarea operations (IPv4 and IPv6) • Route advertisement • Summarization - Troubleshoot IS-IS multilevel operations (IPv4 and IPv6) • Route advertisement • Summarization - Describe the BGP scalability and performance • BGP confederations • Route reflectors - Troubleshoot BGP • Route advertisement • Route reflectors • Confederations • Multihoming • TTL security and inter-domain security • Maximum prefix • Route dampening • Dynamic neighbors • Communities - Describe IPv6 tunneling mechanisms • Static IPv6-in-IPv4 tunnels • Dynamic 6to4 tunnels • IPv6 provider edge (6PE) - Implement fast convergence • Bidirectional forwarding detection • Nonstop Forwarding • NSR • Timers • BGP pic (edge and core) • LFA • BGP additional and backup path
-----------------	-----	---

Routing Policy and Manipulation	25%	- Compare routing policy language and route maps - Describe conditional matching • Operations • Semantics of policy applications and statements • Regular expressions • Policy sets • Tags • ACLs • Prefix lists and prefix sets • Route types • BGP attributes and communities • Hierarchical and parameterized structures - Troubleshoot route manipulation for IGP • IS-IS • OSPF - Troubleshoot route manipulation for BGP • Route filtering • Traffic steering
Multicast Routing	15%	- Compare multicast concepts • Multicast domains, distribution trees, and IGMP operations • Any-Source Multicast (ASM) versus Source Specific Multicast (SSM) • Intra-domain versus inter-domain multicast routing - Describe multicast concepts • Mapping of multicast IP addresses to MAC addresses • Multiprotocol BGP for IPv4 and IPv6 • Principles and operations of PIM-SM • Multicast Source Discovery Protocol (MSDP) operations • MLDP/P2MP - Implement PIM-SM operations • Auto-RP, PIMv2 BSR, anycast RP • BIDIR-PIM operations • SSM operations • MSDP operations - Troubleshoot multicast routing • Single domain • Multidomain

Cisco 300-510 Exam is a challenging but rewarding certification exam for professionals who want to enhance their skills in implementing advanced routing solutions in a service provider network. Passing 300-510 exam can help you stand out in the job market, increase your earning potential, and open up new career opportunities. With proper preparation and dedication, you can pass the exam and join the elite group of Cisco certified professionals.

Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q78-Q83):

NEW QUESTION # 78

Refer to the exhibit.

```

RP/0/0/CPU0:XR1#
route-policy ALL_LABELS
  drop
end-policy
!
router bgp 1
  bgp router-id 192.168.0.3
  address-family ipv4 unicast
    allocate-label route-policy ALL_LABELS

```

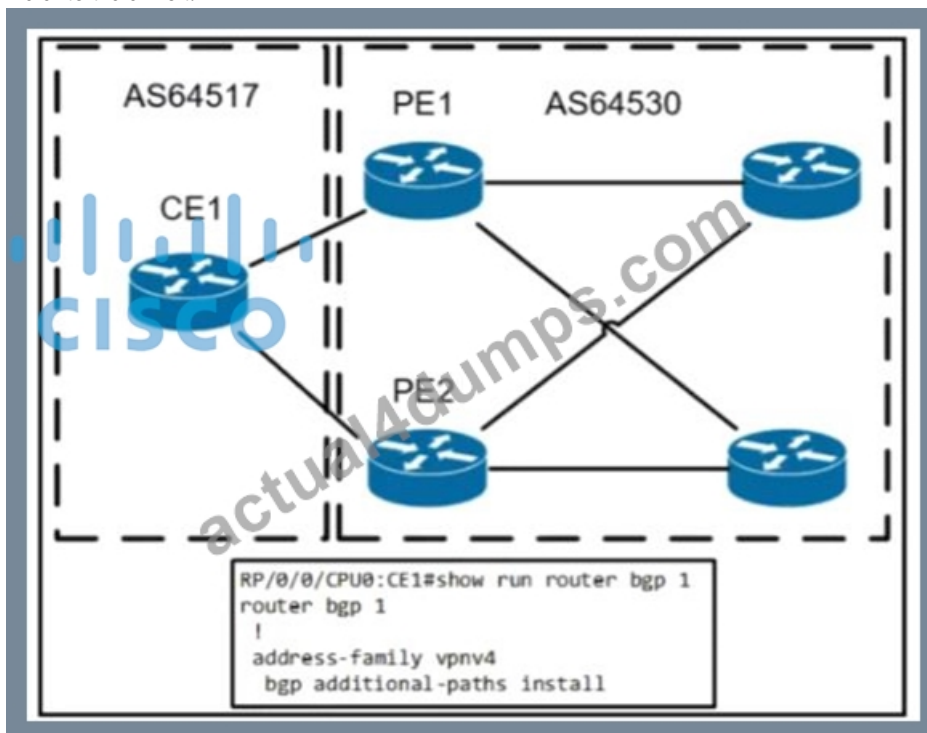
A network operator is working to deploy a Unified BGP design and allow it to be available only in selected markets and services in the future. The label allocation is not functioning as desired. Which action will fix the issue?

- A. Remove the allocate-labels command.
- B. Reconfigure the route-policy ALL_LABELS to match all after the drop.
- C. Remove the route policy and only configure "allocate-label".
- **D. Reconfigure the route-policy ALL_LABELS to pass.**

Answer: D

NEW QUESTION # 79

Refer to the exhibit.



A network operators configuring BGP PIC on CE1 on already established neighborships with PE1 and PE2 inside the fully converged MPLS network. Which element needs to be implemented to make this feature function effectively?

- A. BGP import export policies must be applied on all devices for the routes needing BGP for PIC
- **B. Bidirectional Forwarding Detection must be applied to the upstream facing BGP interfaces.**
- C. The operator must ensure that all prefixes have the same next-hop from PE1 and PE2 for BGP PIC
- D. community of 10 must be used to denote the PIC feature set to the routing protocol

Answer: B

NEW QUESTION # 80

Refer to the exhibit.

```
router bgp 65525
  ibgp policy out enforce-modifications
  bgp router-id 192.168.1.1
  address-family ipv4 unicast
```

Router 1 is a core ABR in a Cisco Unified MPLS environment. All of the router 1 BGP peers are established, but traffic between customers is failing. Which BGP configuration must be added to the configuration?

- A. It must be configured with a route reflector
- **B. It must be configured with send labels**
- C. It must be configured with PIC edge
- D. It must be configured for graceful restart

Answer: B

NEW QUESTION # 81

Refer to the exhibit.

```
R2#sh ip ospf neighbor
Neighbor ID Pri State Dead Time Address Interface
10.1.3.3 1 FULL/BDR 00:00:37 10.1.234.3 Ethernet0/0.234
10.1.4.4 1 FULL/DR 00:00:35 10.1.234.4 Ethernet0/0.234
10.1.5.5 1 2WAY/DROTHER 00:00:35 10.1.234.5 Ethernet0/0.234
```

Why is neighbor 10.1.5.5 stuck in "2WAY" state?

- A. Router ID 10.1.5.5 is not reachable from R2
- B. OSPF parameters (Area ID or hello interval) are mismatched between R2 and 10.1.5.5
- C. OSPF authentication has failed between R2 and 10.1.5.5
- **D. It is an expected behavior when OSPF network type is broadcast**

Answer: D

NEW QUESTION # 82

A network engineer of an ISP using Cisco IOS XR routers wants to limit the number of prefixes that BGP peers can accept. To accomplish this task, the command `maximum-prefix 1000` is used. Which two results of this configuration are expected? (Choose two.)

- A. A BGP peer resets when it receives 1001 prefixes.
- **B. A warning message displays by default when 750 prefixes are received.**
- C. A BGP peer resets when it receives 1000 prefixes.
- D. A BGP peer ceases when it receives 1000 prefixes.
- E. The BGP peer tries to reestablish the session after one minute.
- F. A warning message displays by default when 850 prefixes are received.
- **G. A BGP peer ceases when it receives 1001 prefixes.**

Answer: B,G

NEW QUESTION # 83

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