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**Vendor:**Cisco

**Exam Code:**300-515

**Exam Name:**Implementing Cisco Service Provider  
VPN Services (SVPI)

**Version:**Demo

## QUESTION 1

```
configure
router bgp 64520
  address-family 12vpn evpn
    neighbor 192.168.1.1

configure
12vpn
  xconnect group evpn-test
  p2p evpn12
    interface TenGigE0/1/0/1
      neighbor evpn evi 12 target 10 source 11
```

Refer to the exhibit. Which effect of this configuration is true?

- A. It configures VPWS multihomed.
- B. It configures VPWS single homed.
- C. It configures an IPv4 peering with 192.168.1.1
- D. It configures MPLS traffic engineering.

Correct Answer: B

Reference: <https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2019/pdf/BRKSPG-2798.pdf>

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## QUESTION 2

Which optional information can be included with an IPv6 ping to support the troubleshooting process?

- A. IPv4 IP address
- B. source MAC address
- C. destination MAC address
- D. IPv6 hostname

Correct Answer: D

Reference: <https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6/configuration/xr-3s/ipv6-xr-36s-book/ipv6-mng-apps.html>

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### QUESTION 3

An ISP provides a major client MPLS VPN for managed services. The MPLS engineering team needs to use the advanced VPN feature of selective VRF import so that only specific prefixes are present in the required VPNs. Which aspect of this feature must the team consider?

- A. A route must pass the import route map first and then the route target import filter.
- B. The routes that are imported in the VRF can be BGP and IGP routes, so other match conditions in the route map, besides communities, can be used.
- C. The import-map command is applied under the PE interface that connects to the CE router.
- D. A route is imported into the VRF only when at least one RT that is attached to the route matches one RT that is configured in the VRF and the route is permitted by the import route map.

Correct Answer: D

Reference: <https://www.ccexpert.us/mpls/configuring-selective-vrf-import.html>

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### QUESTION 4

You are troubleshooting ARP connectivity issues for an Ethernet interface on an IOS XR network that runs IS-IS. You verify that the IGP protocol is running, but an ARP entry has not yet been created. Which action should you take?

- A. debug ping packets
- B. debug ARP
- C. ping the connected neighbor
- D. verify the RIB table routes

Correct Answer: C

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### QUESTION 5

You are writing the requirements for an MPLS L3VPN environment that uses MP-BGP between PE routers. In this environment, route targets and route distinguishers need to be advertised between the PE routers.

Which three operations meet these requirements? (Choose three.)

- A. mandatory creation of PE-to-PE BGP sessions between the outgoing interface IP addresses
- B. advertisement of standard communities, enabled on the PE-to-PE BGP neighbors
- C. creation of PE-to-PE BGP sessions between loopback IP addresses
- D. full mesh of IBGP sessions
- E. full mesh of EBGP sessions and partial mesh of IBGP sessions
- F. advertisement of extended communities, enabled on the PE-to-PE BGP neighbors

Correct Answer: CDF

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#### QUESTION 6

```
ip vrf mvpn-extranet
rd 12:1
vpn id 12:1
route-target import 12:2
route-target export 12:3
mdt default mpls mldp 192.168.1.2
exit
ip multicast-routing vrf mvpn-extranet
```

Refer to the exhibit. What is the effect of this configuration?

- A. The mroute table is cleared.
- B. Router 1 accepts multicast routes with a tag of 12:1
- C. A Cisco MPLS TE tunnel is generated with 192.168.1.2 as the source IP address of router 1.
- D. An LSP virtual interface tunnel is created.

Correct Answer: B

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#### QUESTION 7

The network engineering group of a large ISP needs to harden the management plane of its Cisco 9000 Series ASRs. While addressing IPv6 ICMP issues, they realized they have to limit the rate at which IPv6 ICMP error messages are sent out on the network. Which command do they need to apply?

- A. icmp ipv6 rate-limit unreachable 1000
- B. ipv6 rate-limit 1000
- C. icmp ipv4 rate-limit unreachable 1000
- D. ipv6 icmp error-interval 50 20

Correct Answer: D

Reference: [https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6\\_basic/configuration/xs-3s/ip6b-xe-3s-book/ip6-icmp-rate-lmt-xe.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6_basic/configuration/xs-3s/ip6b-xe-3s-book/ip6-icmp-rate-lmt-xe.html)

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#### QUESTION 8

**R1**

```
router ospf 1 vrf custabc  
network 192.168.1.0 0.0.0.255 area 1  
redistribute bgp 65001 metric-type 1 subnets
```

Refer to the exhibit. Which statement describes the result of this configuration?

- A. R1 redistributes BGP routes into the OSPF process of VRF custabc as E1 routes.
- B. R1 redistributes BGP routes into the OSPF process of VRF custabc as E2 routes.
- C. R1 mutually redistributes routes between BGP 65001 and the OSPF process of VRF custabc.
- D. R1 redistributes BGP routes into the OSPF process of VRF custabc as OIA routes.

Correct Answer: A

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#### QUESTION 9

Refer to the exhibit.

**Router 1:**

```
router bgp 65515  
no bgp default ipv4-unicast  
bgp router-id 192.168.0.1  
neighbor 191.168.0.2 remote-as 65515  
  
address-family ipv4  
neighbor 191.168.0.2 route-reflector-client  
  
address-family vpnv4  
neighbor 191.168.0.2 activate  
neighbor 100.1.3.3 send-community extended
```

Router 1 is a route reflector client within a service provider core PE1 cannot see VPNv4 routes received from the ASBR PE1 only has an iBGP relationship with Router 1. Which action resolves this issue?

- A. Activate PE1 as a neighbor under the IPv4 address family.
- B. Configure Router 1 as a route reflector for PE1 under the VPNv4 address family.
- C. Configure PE1 to have an eBGP relationship with Router 1.

D. Enable BGP default ipv4-unicast

Correct Answer: B

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#### QUESTION 10

An engineer is troubleshooting an ongoing network outage. Which command should he use that can display the live log files for a process or service running on a network device?

A. traceroute

B. show run

C. ping

D. debug

Correct Answer: D

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#### QUESTION 11

Which two frames can be configured on an Ethernet flow point? (Choose two.)

A. of a specific VLAN

B. with different type of service values

C. with identical type of service value

D. with different class of service values

E. with no tags

Correct Answer: AE

Reference: <https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/cether/configuration/xe-3s/asr903/16-5-1/b-ce-xe-16-5-asr900/trunk-efp-support.html>

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#### QUESTION 12

Refer to the exhibit.

Router 1:

```
vrf ciscotest
  address-family ipv4 unicast
    import route-target
      101:102
      301:202

    export route-target
      201:202
      401:402
```

An engineer has configured router 1 to provide shared services to clients behind router 2.

To complete the implementation so that routes from router 1 are accepted, what must the engineer configure on router 2?

- A. with import route targets 101:102 and 202:201
- B. with import route targets 201:202 and 401:402
- C. with export route targets 301:202 and 101:102
- D. with export route targets 201:202 and 401:402

Correct Answer: B