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## Question 1

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**Question Type:** MultipleChoice

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The CTO of a company requires the support of a network consultant to deliver an MPLS solution without resigning to a certain degree of redundancy and scalability. Which solution effectively scales to hundreds or thousands of sites?

**Options:**

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- A- L2VPN with the broadcast traffic processed at the ingress PE.
- B- L3VPN with direct LSP connectivity between all PEs.
- C- L2VPN by encapsulating multiple frame formats with interworking.
- D- L3VPN using a hierarchical topology of N-PEs and U-PEs.

**Answer:**

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D

## Question 2

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**Question Type:** MultipleChoice

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You try to configure MPLS VPN VRF Selection based on a source IP address on an interface that has VRF configured, but you receive an error.

Which action must you take to correct the problem?

**Options:**

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- A- Change the source IP address.
- B- Add the IP address to the VRF table.
- C- Remove the VRF from the interface.
- D- Configure static routes for the VRF.

**Answer:**

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C

**Explanation:**

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[https://www.cisco.com/c/en/us/td/docs/ios/12\\_0s/feature/guide/vrfselec.html](https://www.cisco.com/c/en/us/td/docs/ios/12_0s/feature/guide/vrfselec.html)

## Question 3

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Question Type: MultipleChoice

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Refer to the exhibit.

```
RP/0/0/CPU0:PE1#show run
evpn
no evi 100
no advertise-mac
!
!
vrf EVPN
address-family ipv4 unicast
import route-target
133:100
export route-target
133:100
!
!
interface BVI651
vrf EVPN
ipv4 address 192.168.100.1 255.255.255.0
mac-address 1337.1337.1337
```

A network operator is implementing EVPN IRB on PE1. Which two command placements enable the advertisement of Type 2 routes and what information do Type 2 routes contain? (Choose two.)

### Options:

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- A- The operator adds in "host-routing" under the VRF EVPN.
- B- Type 2 routes contain MAC/IP information.
- C- Type 2 routes contain Ethernet Auto-Discovery information.
- D- The operator adds in "host-routing" under the BVI651 interface.
- E- Type 2 routes contain inclusive source-specific multicast route information.

### Answer:

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B, D

### Explanation:

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[https://www.cisco.com/c/en/us/td/docs/iosxr/ncs5500/vpn/61x/b-ncs5500-l2vpn-configuration-guide-61x/b-ncs5500-l2vpn-configuration-guide-61x\\_chapter\\_01010.html](https://www.cisco.com/c/en/us/td/docs/iosxr/ncs5500/vpn/61x/b-ncs5500-l2vpn-configuration-guide-61x/b-ncs5500-l2vpn-configuration-guide-61x_chapter_01010.html)

## Question 4

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**Question Type:** MultipleChoice

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An engineer needs to improve MPLS network management by implementing a set of tools to support the NOC engineers in troubleshooting network failures. Which feature should the engineer implement to check the connectivity of the MPLS LSP between the ingress and egress PE routers?

**Options:**

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- A- MPLS OAM
- B- MPLS-TP
- C- LDP autodiscovery
- D- extended ping

**Answer:**

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A

**Explanation:**

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[https://www.cisco.com/c/en/us/td/docs/routers/asr9000/software/asr9k\\_r5-3/mpls/configuration/guide/b-mpls-cg53x-asr9k/b-mpls-cg53x-asr9k\\_chapter\\_01000.html](https://www.cisco.com/c/en/us/td/docs/routers/asr9000/software/asr9k_r5-3/mpls/configuration/guide/b-mpls-cg53x-asr9k/b-mpls-cg53x-asr9k_chapter_01000.html)

## Question 5

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**Question Type:** MultipleChoice

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Which two BGP attributes prevent loops in a route reflector environment? (Choose two.)

### Options:

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A- cluster ID

B- local preference

C- origin

D- originator ID

E- AS\_PATH

### Answer:

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A, D

### Explanation:

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<https://www.ciscopress.com/articles/article.asp?p=2756480&seqNum=10>

## Question 6

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**Question Type:** MultipleChoice

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While configuring the VRF Selection feature, you get an error message after typing the below statement:

```
Router(config)#no vrf selection source 172.16.0.0 255.255.0.0 vrf VRF1
```

Which action caused this message?

### Options:

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- A-** the entry of an inconsistent IP address and mask for VRF Selection
- B-** an attempt to configure a VRF instance on an interface that already has VRF Selection configured
- C-** an attempt to remove a VRF Selection entry that does not exist
- D-** an attempt to configure a VRF Selection table that does not exist

### Answer:

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C



## Explanation:

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[https://www.cisco.com/c/en/us/td/docs/ios/12\\_2/12\\_2sz/feature/guide/122szvrf.html](https://www.cisco.com/c/en/us/td/docs/ios/12_2/12_2sz/feature/guide/122szvrf.html)

## Question 7

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### Question Type: MultipleChoice

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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?

### Options:

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- A-** A route must pass the import route map first and then the route target import filter.
- B-** The routers 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.

**Answer:**

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D

**Explanation:**

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

## Question 8

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**Question Type: MultipleChoice**

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In a typical service provider environment, which two tools are used to help scale PE router connectivity requirements? (Choose two.)

**Options:**

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**A-** route reflectors

**B-** VPNv4 address family

**C-** originator ID

**D-** cluster ID

**E-** confederations

**Answer:**

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A, E

## Question 9

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**Question Type:** MultipleChoice

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Which tool identifies the point of failure in a P2MP LSP from the ingress LSR?

**Options:**

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**A-** Jitter TLV

**B-** SPAN

C- P2MP traceroute

D- P2MP ping

**Answer:**

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C

**Explanation:**

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[https://www.cisco.com/c/en/us/td/docs/routers/asr9000/software/asr9k\\_r5-3/mpls/configuration/guide/b-mpls-cg53x-asr9k/b-mpls-cg53x-asr9k\\_chapter\\_01000.html](https://www.cisco.com/c/en/us/td/docs/routers/asr9000/software/asr9k_r5-3/mpls/configuration/guide/b-mpls-cg53x-asr9k/b-mpls-cg53x-asr9k_chapter_01000.html)

## Question 10

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**Question Type:** MultipleChoice

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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?

**Options:**

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A- traceroute

B- show run

C- ping

D- debug

**Answer:**

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D

## Question 11

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**Question Type:** MultipleChoice

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Refer to the exhibit.

Router# show mpls forwarding-table					
Local	Outgoing	Prefix	Bytes label	Outgoing	Next Hop
label	label or VC	or Tunnel Id	switched	interface	
29	Pop tag	10.22.22.22/32	0	Gi1/1/0	172.32.0.1
32	0	10.24.24.24/32	0	Gi1/0/0	192.168.1.2
33	0	172.24.24.24/32	0	Gi1/0/0	192.168.1.2
34	0	192.168.0.0/8	0	Gi1/0/0	192.168.1.2
35	0	10.25.25.25/32	0	Gi1/0/0	192.168.1.2
36	0	172.16.0.0/8	0	Gi1/0/0	192.168.1.2
37	25	10.26.26.26/32	0	Gi1/0/0	192.168.1.22
38	0	10.34.34.34/32	0	Gi1/0/0	192.168.1.2

Which statement about this output is true?

### Options:

- A-** The router IP 192.168.1.2 sent an implicit null, and the output is from the penultimate LSR.
- B-** The adjacent router is the egress LSR and has mpls ldp explicit-null configured.
- C-** The adjacent LSR router configured mpls label range 0.
- D-** The zero in the second column is the normal behavior of an egress router LSR.

### Answer:

B

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