



# 640-878<sup>Q&As</sup>

Building Cisco Service Provider Next-Generation Network

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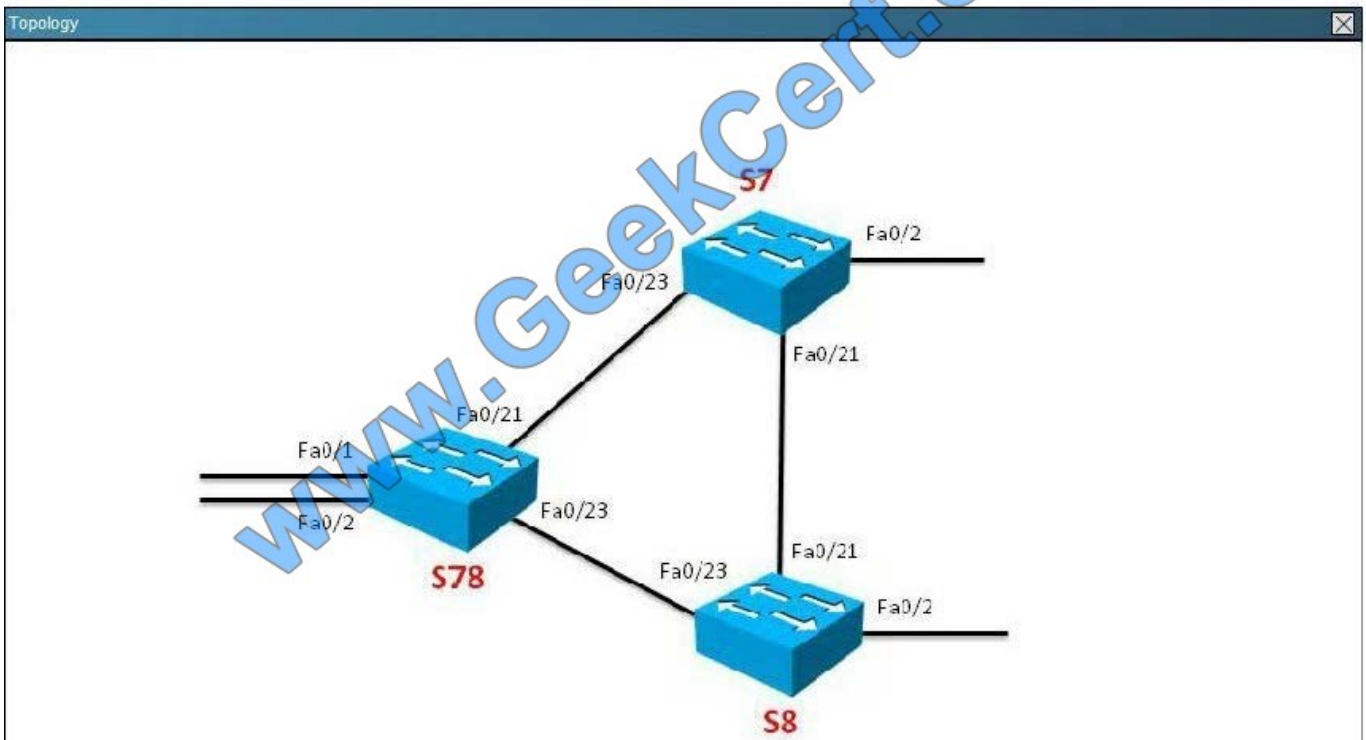
### QUESTION 1

**Instructions**

- Enter the proper IOS CLI show commands and analysis the show outputs on the Cisco switches to answer the multiple-choice questions.
- Not all show commands or show commands options are supported or required for this simulation.
- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION
- From the Topology, click on the switch icon to gain access to the console of the switch. No console or enable passwords are required.
- To access the multiple-choice questions, click on the numbered boxes on the left of the top panel
- There are four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

**Scenario**

Refer to the topology diagram. Use the appropriate show commands on the Cisco switches to answer the multiple-choice questions.







Hot Area:

Questions

1 Which vlan(s) is/are mapped toMST instance 2?

2  vlan 1

3  vlan 70

4  vlan 80

vlans 70 and 80

vlans 1, 70 and 80

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Questions

1 Which vlan(s) is/are mapped toMST instance 2?

2  vlan 1

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4  vlan 80

vlans 70 and 80

vlans 1, 70 and 80

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Correct Answer:

Questions

1 Which vlan(s) is/are mapped toMST instance 2?

2  vlan 1

3  vlan 70

4  vlan 80

vlans 70 and 80

vlans 1, 70 and 80

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### QUESTION 2

Within an MPLS domain, which table is used by the label switch routers to make forwarding decisions when a labeled packet is received?

- A. FIB
- B. RIB
- C. LFIB
- D. LIB
- E. CEF

Correct Answer: C

[http://www.cisco.com/en/US/docs/ios-xml/ios/mp\\_ldp/configuration/12-4m/mp-ldp-12-4m-book.pdf](http://www.cisco.com/en/US/docs/ios-xml/ios/mp_ldp/configuration/12-4m/mp-ldp-12-4m-book.pdf)

### QUESTION 3

Refer to the exhibit.

```
Media
RP/0/RSP0/CPU0:P1# show mpls ldp forwarding
```

Prefix	Label In	Label Out	Outgoing Interface	Next Hop	GR	Stale
192.168.102.0/24	16003	ImpNull	Gi0/0/0/1	192.168.112.40	N	N
10.2.10.1/32	16010	22	Gi0/0/0/1	192.168.112.40	N	N
10.10.10.100/32	16006	Unlabelled	None	10.10.10.1	N	N

<output omitted>

Which three statements about MPLS LDP operations are true?

- A. The incoming label for 10.2.10.1/32 is 16010 (which is allocated by the local router), and the outgoing label is 22 (as advertised by the next-hop router).
- B. The 16003 and 16010 labels are learned from the 192.168.112.40 LDP neighbor.
- C. The ImpNull outgoing label for the 192.168.102.0/24 network means that the outgoing label should be removed when sending packets to the 192.168.112.40 next-hop router, when the incoming label is 16003.
- D. The ImpNull outgoing label for the 192.168.102.0/24 network means that the local router has not received a label for that network from its neighbor.



E. The Unlabeled outgoing label for 10.10.10.100/32 indicates that a label pop is required when sending packets to the 10.10.10.1 next-hop router.

F. The outgoing label of 22 for 10.2.10.1/32 is learned from the 192.168.112.40 LDP neighbor.

Correct Answer: ACF

[http://www.cisco.com/en/US/docs/ios/12\\_2t/12\\_2t2/feature/guide/ldp\\_221t.html](http://www.cisco.com/en/US/docs/ios/12_2t/12_2t2/feature/guide/ldp_221t.html)

#### QUESTION 4

Select and Place:

Drag and drop the OSPF configurations on the left to the correct IOS XR or IOS XE box on the right.

The correct OSPF configurations on the left should enable OSPF for IPv6 routing using an OSPF process ID of 1 and an OSPF router ID of 10.1.1.1. The configurations should enable the Gi0/0/0 interface (with an IPv6 address of 2001:DB8:192:168:101::11/80) to be in area 0. IPv6 unicast routing has already been enabled globally, and IPv6 has been enabled on the Gi0/0/0 interface.

```
router ospf 1
router-id 10.1.1.1
network 2001:DB8:192:168:101::11/80 area 0
```

```
ipv6 router ospf 1
router-id 10.1.1.1
interface gi0/0/0
ipv6 ospf 1 area 0
```

```
router ospfv3 1
router-id 10.1.1.1
area 0
interface gi0/0/0
```

```
router ospf 1
router-id 10.1.1.1
address-family ipv6 unicast
area 0
interface gi0/0/0
```

Cisco IOS XE

Cisco IOS XR

Correct Answer:





Drag and drop the OSPF configurations on the left to the correct IOS XR or IOS XE box on the right.

The correct OSPF configurations on the left should enable OSPF for IPv6 routing using an OSPF process ID of 1 and an OSPF router ID of 10.1.1.1. The configurations should enable the Gi0/0/0 interface (with an IPv6 address of 2001:DB8:192:168:101::11/80) to be in area 0. IPv6 unicast routing has already been enabled globally, and IPv6 has been enabled on the Gi0/0/0 interface.

```
router ospf1
router-id 10.1.1.1
network 2001:DB8:192:168:101::11/80 area 0
```

```
ipv6 router ospf 1
router-id 10.1.1.1
interface gi0/0/0
ipv6 ospf 1 area 0
```

```
router ospfv3 1
router-id 10.1.1.1
area 0
interface gi0/0/0
```

```
router ospf1
router-id 10.1.1.1
address-family ipv6 unicast
area 0
interface gi0/0/0
```

### QUESTION 5

Refer to the Cisco IOS XR configuration exhibit.

```
!
router isis 1
net 49.0001.0100.0200.1001.00
address-family ipv4 unicast
metric-style wide
address-family ipv6 unicast
metric-style wide
!
```

Which statement about the configuration is true?

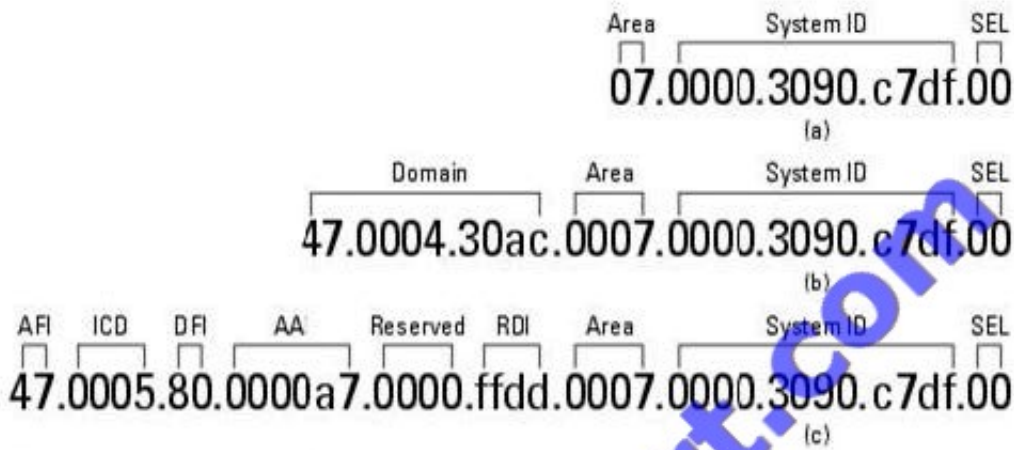
- A. This is a Level-2-only router.
- B. This is a Level-1-only router.
- C. The maximum IS-IS path metric is 63.
- D. This router belongs to area ID 0001.
- E. This configuration is missing the net configuration for the IPv6 unicast address family.



Correct Answer: D

[http://www.cisco.com/en/US/tech/tk365/technologies\\_white\\_paper09186a00800a3e6f.shtml#wp\\_39875](http://www.cisco.com/en/US/tech/tk365/technologies_white_paper09186a00800a3e6f.shtml#wp_39875)

Three NSAP Formats



- AFI: Authority and Format Identifier
- ICD: International Code Designator
- DFI: Domain Specific Part (DSP) Format Identifier
- AAI: Administrative Authority Identifier
- RDI: Routing Domain Identifier (Autonomous System Number)
- SEL: Network Service Access Point (NSAP) Selector

If an official prefix is not required, you can use AFI 49, which denotes private address space, like IP address space for private Internets as defined in RFC 1918.

The AFI has a binary value between 0 and 99; this value specifies the IDI format and the DSP syntax. The DSP is in binary format, and the IDP is in decimal. ISO recognizes seven top-level network addressing authorities; each authority has its own addressing format represented by the IDI format field.

Cisco technology supports all NSAP formats that are defined by ISO 8348/Ad2.

It is possible to configure multiple NETs on a router, but no router is ever in more than one area. Configuring multiple NETs causes the areas to merge into a common area, leaking the Level 1 databases into each other. The only reasons to have multiple NETs are for splitting, merging, or renumbering areas; this method should only be used in periods of transition. Cisco Systems limits the number of configurable NETs to three per router.







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