



100-105^{Q&As}

Interconnecting Cisco Networking Devices Part 1 (ICND1)

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QUESTION 1

On which type of device is every port in the same collision domain?

- A. a router
- B. a Layer 2 switch
- C. switch
- D. a hub
- E. a Layer 3 switch

Correct Answer: D

The definition of a collision domain is a set of LAN devices whose frames could collide with one another. This happens with hubs, bridges, repeaters and wireless access points as only one device can send and receive. If more than one device tries sending or receiving, the information is lost and irrecoverable it will need to be resent. This can slow down network performance along with making it a security threat.

QUESTION 2

Refer to the exhibit. A network associate has configured OSPF with the command: City(config-router)# network 192.168.12.64 0.0.0.63 area 0 After completing the configuration, the associate discovers that not all the interfaces are participating in OSPF. Which three of the interfaces shown in the exhibit will participate in OSPF according to this configuration statement? (Choose

three.)

```
City#show ip interface brief
```

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	192.168.12.48	YES	manual	up	up
FastEthernet0/1	192.168.12.65	YES	manual	up	up
Serial0/0	192.168.12.121	YES	manual	up	up
Serial0/1	unassigned	YES	unset	up	up
Serial0/1.102	192.168.12.125	YES	manual	up	up
Serial0/1.103	192.168.12.129	YES	manual	up	up
Serial0/1.104	192.168.12.133	YES	manual	up	up

City#

- A. FastEthernet0 /0
- B. FastEthernet0 /1
- C. Serial0/0
- D. Serial0/1.102



E. Serial0/1.103

F. Serial0/1.104

Correct Answer: BCD

The "network 192.168.12.64 0.0.0.63 equals to network 192.168.12.64/26. This network has:

+

Increment: 64 (/26= 1111 1111.1111 1111.1111 1111.1100 0000) + Network address:

+

Broadcast address: 192.168.12.127

Therefore all interface in the range of this network will join OSPF.

QUESTION 3

Click on the correct location or locations in the exhibit.



Instructions

You can click on the grey buttons below to view the different windows.

Each of the windows can be minimized by clicking on the [-]. You can also reposition a window by dragging it by the title bar.

The "Tab" key and most commands that use the "Control" or "Escape" keys are not supported and are not necessary to complete this simulation.

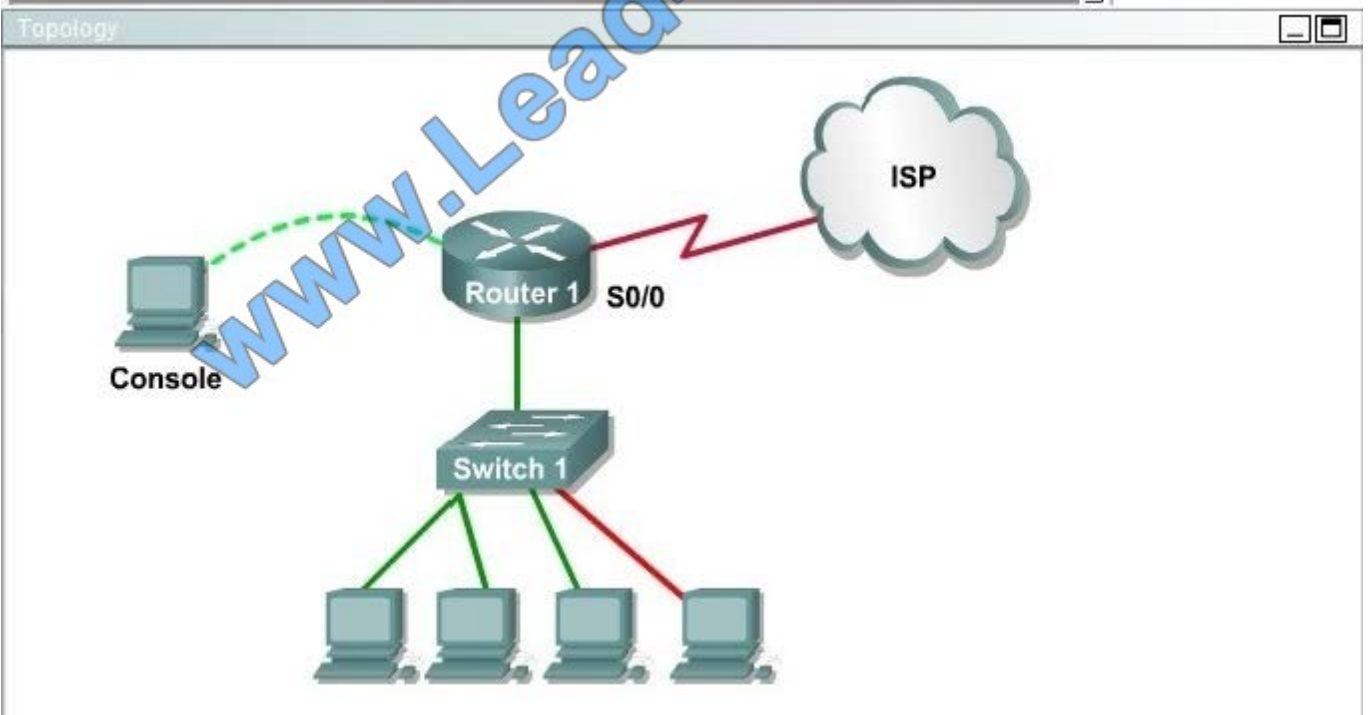
Scenario

This task requires the use of various **show** commands from the CLI of Router1 to answer four multiple-choice questions. This task does **not** require any configuration.

NOTE: The show running-configuration and the show startup-configuration commands have been disabled in this simulation.

To access the multiple-choice questions, click on the numbered boxes on the right of the top panel.

There are 4 multiple-choice questions with this task. Be sure to answer all 4 questions before leaving this item.



Including the address on the Router1 FastEthernet interface, how many hosts can have IP addresses on the LAN to which Router1 is connected?

- A. 6
- B. 14
- C. 62



D. 126

Correct Answer: B

The mask address of interface Fa0/1 of Router1 is /28, which has four 0 bits (1111 1111.1111 1111.1111 1111.1111 0000). Therefore there are $2^4 - 2 = 14$ assignable IP addresses for hosts on the LAN.

QUESTION 4

Which RFC was created to alleviate the depletion of IPv4 public addresses?

- A. RFC 4193
- B. RFC 1519
- C. RFC 1518
- D. RFC 1918

Correct Answer: D

RFC 1918 references private IP addressing schemes such as NAT. RFC 1518 simply covers the usage of CIDR, or how to use address blocks more efficiently while RFC 1918 is specifically referred to as a stopgap to avert the crisis of IPv4 addresses.

QUESTION 5

An administrator must assign static IP addresses to the servers in a network. For network 192.168.20.24/29, the router is assigned the first usable host address while the sales server is given the last usable host address. Which of the following should be entered into the IP properties box for the sales server?

- A. IP address: 192.168.20.14 Subnet Mask: 255.255.255.248 Default Gateway: 192.168.20.9
- B. IP address: 192.168.20.254 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.20.1
- C. IP address: 192.168.20.30 Subnet Mask: 255.255.255.248 Default Gateway: 192.168.20.25
- D. IP address: 192.168.20.30 Subnet Mask: 255.255.255.240 Default Gateway: 192.168.20.17
- E. IP address: 192.168.20.30 Subnet Mask: 255.255.255.240 Default Gateway: 192.168.20.25

Correct Answer: C

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