Vendor: Cisco
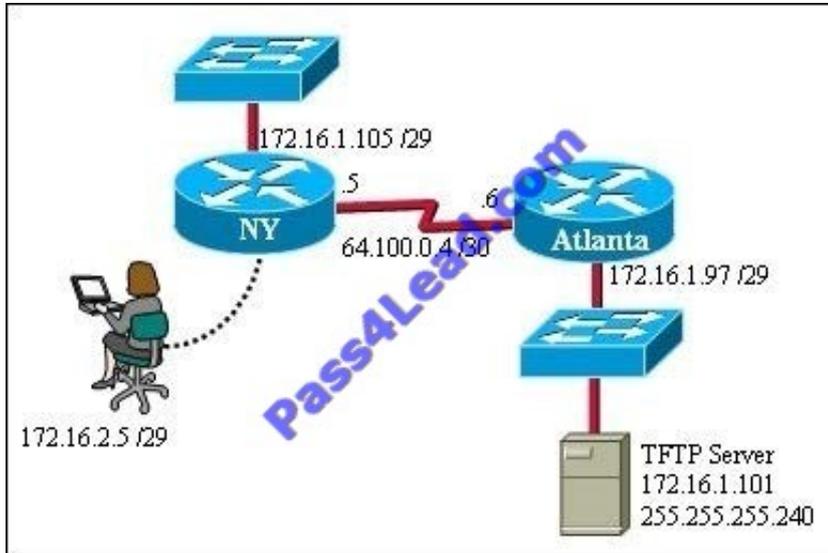
Exam Code:100-101

Exam Name:CCNA Interconnecting Cisco Networking Devices 1 (ICND1)

Version: Demo

QUESTION 1

Refer to the exhibit.

A TFTP server has recently been installed in the Atlanta office. The network administrator is located in the NY office and has made a console connection to the NY router. After establishing the connection they are unable to backup the configuration file and IOS of the NY router to the TFTP server. What is the cause of this problem?
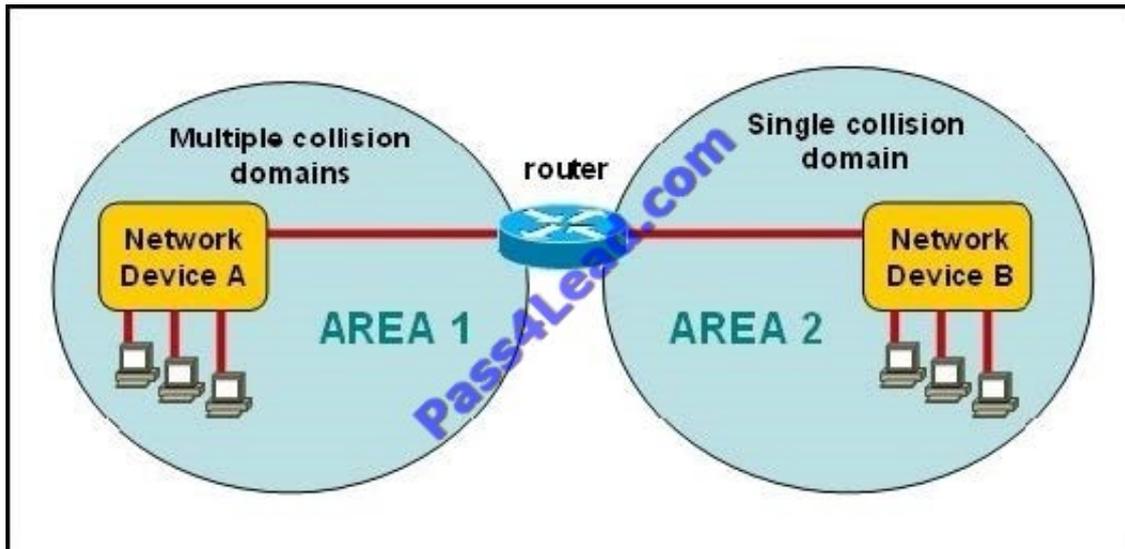
A. The NY router has an incorrect subnet mask.

B. The TFTP server has an incorrect IP address.

C. The TFTP server has an incorrect subnet mask.

D. The network administrator computer has an incorrect IP address.

Correct Answer: C

The subnet mast of the TFTP server needs to be in tune with the other network requirements else it won\'t be possible.

QUESTION 2

Refer to the exhibit.

A network has been planned as shown. Which three statements accurately describe the areas and devices in the network plan? (Choose three.)

A. Network Device A is a switch.

B. Network Device B is a switch.

C. Network Device A is a hub.

D. Network Device B is a hub.

E. Area 1 contains a Layer 2 device.

F. Area 2 contains a Layer 2 device.

Correct Answer: ADE

Switches use a separate collision domain for each port, so device A must be a switch. Hubs, however, place all ports in the same collision domain so device B is a hub. Switches reside in layer 2 while hubs are layer 1 devices.

QUESTION 3

When configuring NAT, the Internet interface is considered to be what?

A. local

B. inside

C. global

D. outside

Correct Answer: D

Network address translation or NAT requires the Internet to be considered as an outside interface else it won\\'t serve the purpose it intends to.

QUESTION 4

What is the purpose of the switchport command?

Switch(config-if)# switchport port-security maximum 1 Switch(config-if)# switchport port-security mac- address 0018.DE8B.4BF8

A. It ensures that only the device with the MAC address 0018.DE8B.4BF8 will be able to connect to the port that is being configured.

B. It informs the switch that traffic destined for MAC address 0018.DE8B.4BF8 should only be sent to the port that is being configured.

C. It will act like an access list and the port will filter packets that have a source or destination MAC of 0018.DE8B.4BF8.

D. The switch will shut down the port of any traffic with source MAC address of 0018.DE8B.4BF8.

Correct Answer: A

QUESTION 5

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.

Topology

ISP

Router 1 S0/0

Console

Switch 1
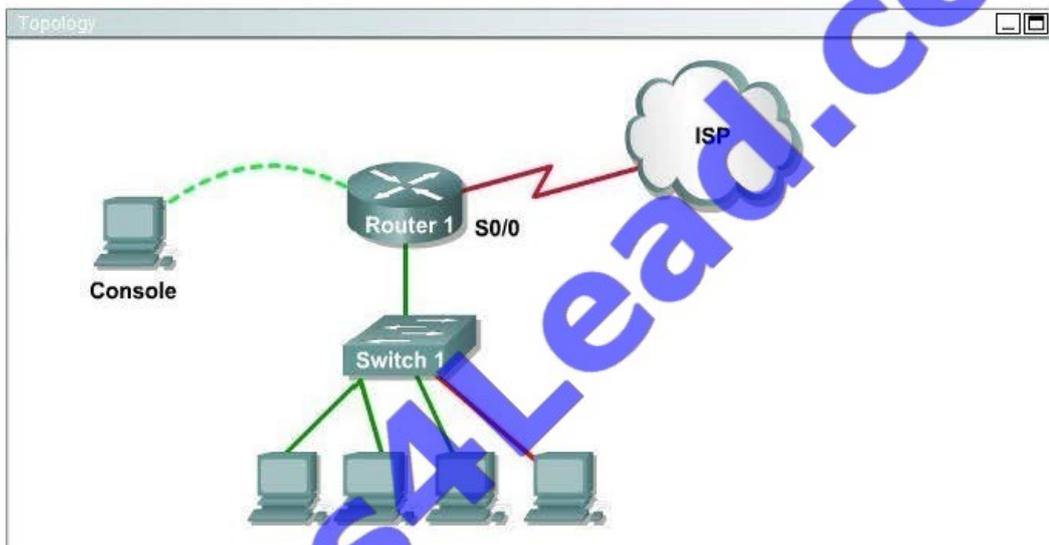
R1

```
Press RETURN to get started!
Router1>
```

The hosts in the LAN are not able to connect to the Internet. Which commands will correct this issue?

A.
    Route·1(conf)# interface fa0/0
    Route·1(conf-if)# no shutdown

B.
    Route·1(conf)# interface fa0/1
    Route·1(conf-if)# no shutdown

C.
    Route·1(conf)# interface s0/0
    Route·1(conf-if)# no shutdown

D.
    Route·1(conf)# interface s0/1
    Route·1(conf-if)# no shutdown

A. B. C. D.

E.

F.

Route·1(conf)# interface s0/0
Route·1(conf-if)# ip address 10.11.12.13 255.255.255.252

Route·1(conf)# interface s0/1
Route·1(conf-if)# ip address 10.100.1.1255.255.255.252

Correct Answer: B

Do a "show ip int brief" and you will see that Fa0/1 has an IP address assigned, but it is shut down.

QUESTION 6

Refer to the exhibit.

```
Cisco#show ip interface brief
Interface          IP-Address      OK? Method Status                     Protocol

FastEthernet0/0    192.168.1.1     YES manual up                         up

FastEthernet0/1    172.16.1.1      YES manual up                         up

Loopback0          1.1.1.1         YES manual up                         up

Loopback1          2.2.2.2         YES manual up                         up

Vlan1              unassigned      YES unset  administratively down down
```

If the router Cisco returns the given output and has not had its router ID set manually, what value will OSPF use as its router ID?

A. 192.168.1.1

B. 172.16.1.1

C. 1.1.1.1

D. 2.2.2.2

Correct Answer: D

QUESTION 7

What does a host on an Ethernet network do when it is creating a frame and it does not have the destination address?

A. Drops the frame

B. Sends out a Layer 3 broadcast message

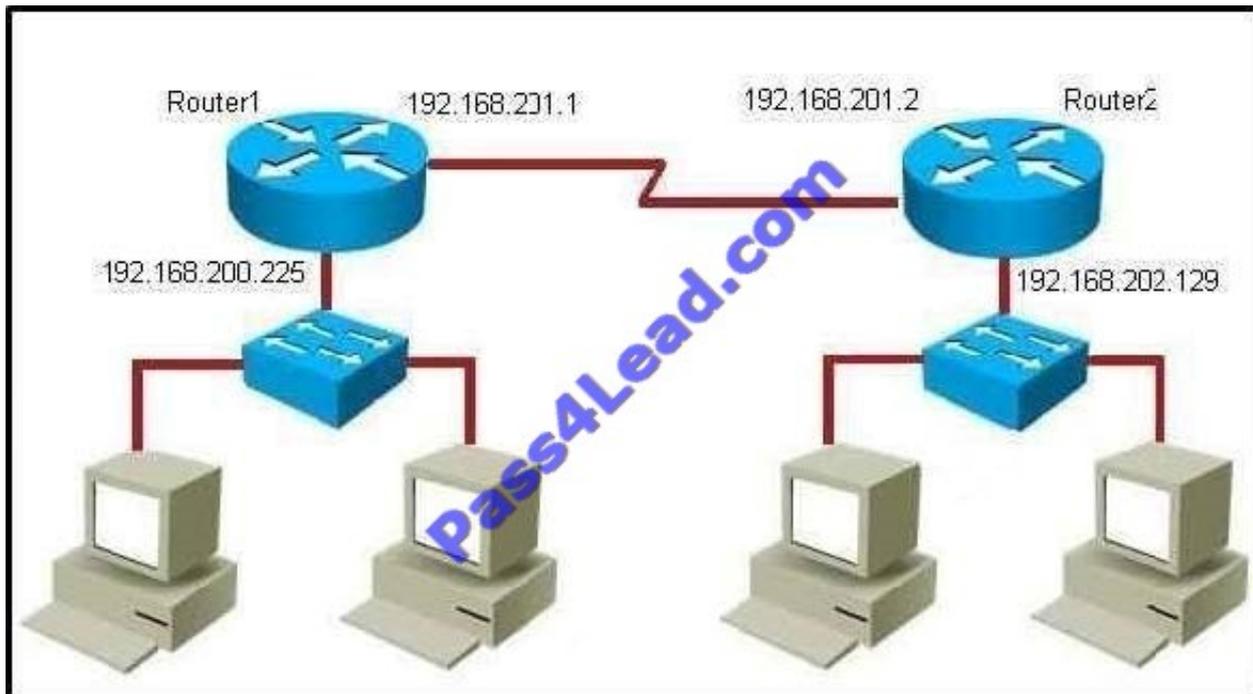C. Sends a message to the router requesting the address

D. Sends out an ARP request with the destination IP address

Correct Answer: D

In this case, it will send out an ARP request for MAC address of the destination IP (assuming it doesn\\'t already have it in its table) and then address it to the destination\\'s MAC address.

QUESTION 8

Refer to the exhibit.

Which command would you use to configure a static route on Router1 to network 192.168.202.0/24 with a nondefault administrative distance?

A. router1(config)#ip route 1 192.168.201.1 255.255.255.0 192.168.201.2

B. router1(config)#ip route 192.168.202.0 255.255.255.0 192.168.201.2 1

C. router1(config)#ip route 5 192.168.202.0 255.255.255.0 192.168.201.2

D. router1(config)#ip route 192.168.202.0 255.255.255.0 192.168.201.2 5

Correct Answer: D

Since it has /24 CIDR and it also has a non default administrative distance, the answer has to be option D.

QUESTION 9

A network administrator cannot connect to a remote router by using SSH. Part of the show interfaces command is shown.

router#show interfaces

Serial0/1/0 is up, line protocol is down

At which OSI layer should the administrator begin troubleshooting?

A. physical

B. data link

C. network

D. transport

Correct Answer: B

https://learningnetwork.cisco.com/thread/12389

I think the indication here is "Serial 0 is up, line protocol is down". What causes this indication? Correct me if I am wrong. When you have this indication, a cable unplugged is not a correct answer. If you check the output of your "show interface serial 0" command again, you should notice it as "Serial 0 is down, line protocol is down. Under the "show ip int brief" you should see status = down and protocol = down as opposed to up, down. Because you disconnected the cable, layer 1 will go down, which is indicated by the serial 0 down status. The line protocol status is for layer 2. So, a cable unplugged is not a correct answer to "Serial 0 is up, line protocol is down". Hope this helps.

Layer	Function	Examples
Application (Layer 7)	User interface	Telnet, HTTP
Presentation (Layer 6)	Handles encryption & changes to syntax	ASCII/EBCDIC, JPEG/MP3
Session (Layer 5)	Manages multiple applications and maintains synchronisation points	Operating systems, scheduling
Transport (Layer 4)	Provides reliable or best-effort delivery and (optional) error and flow control	TCP, UDP
Network (Layer 3)	Provides logical end-to-end addressing used by routers and hosts	IP
Data Link (Layer 2)	Creates frames from data bits, uses MAC addresses to access endpoints, and provides error detection but no correction	802.3, 802.2, HDLC, Frame Relay
Physical (Layer 1)	Specifies voltage, wire speed, and cable pin-outs	EIA/TIA, V.35

QUESTION 10

Which IP addresses are valid for hosts belonging to the 10.1.160.0/20 subnet? (Choose three.)

A. 10.1.168.0

B. 10.1.176.1

C. 10.1.174.255

D. 10.1.160.255

E. 10.1.160.0

F. 10.1.175.255

Correct Answer: ACD

All IP address in IP ranges between: 10.1.160.1 and 10.1.175.254 are valid as shown below Address:

10.1.160.0 00001010.00000001.1010 0000.00000000 Netmask: 255.255.240.0 = 20 11111111.11111111.1111 0000.00000000 Wildcard: 0.0.15.255 00000000.00000000.0000 1111.11111111

Which implies that: Network: 10.1.160.0/20 00001010.00000001.1010 0000.00000000 HostMin: 10.1.160.1 00001010.00000001.1010 0000.00000001 HostMax: 10.1.175.254 00001010.00000001.1010 1111.11111110 Broadcast: 10.1.175.255 00001010.00000001.1010 1111.11111111

QUESTION 11

How many addresses will be available for dynamic NAT translation when a router is configured with the following commands?

Router(config)#ip nat pool TAME 209.165.201.23 209.165.201.30 netmask 255.255.255.224 Router (config)#ip nat inside source list 9 pool TAME

A. 7

B. 8

C. 9

D. 10

E. 24

F. 32

Correct Answer: B

209.165.201.23 to 209.165.201.30 provides for 8 addresses.

QUESTION 12

Refer to the exhibit.

Instructions

This item contains several questions that you must answer. You can view these questions by clicking on the corresponding button to the left. Changing questions can be accomplished by clicking the numbers to the left of each question. In order to complete the questions, you will need to refer to the Exhibit.

To gain access to the Exhibit, click on the Exhibit button at the bottom of the screen. When you have finished viewing the Exhibit, you can return to your questions by clicking on the Questions button to the left.

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

Scenario

Refer to the Exhibit. As the first step in verifying a local host configuration, a network technician issues the **ipconfig /all** command on a computer. Use the results of the command to answer the five questions shown on the Questions tab.

Exhibit

```
C:\WINNT\system32\cmd.exe

        Connection-specific DNS Suffix  . : cisco.com
        Description . . . . . . . . . . . : Intel(R) PRO/1000 MT Mobile

        Physical Address. . . . . . . . . : 00-0D-60-FD-F0-34
        DHCP Enabled. . . . . . . . . . . : Yes
        Autoconfiguration Enabled . . . . : Yes
        IP Address. . . . . . . . . . . . : 172.15.236.227
        Subnet Mask . . . . . . . . . . . : 255.255.255.0
        Default Gateway . . . . . . . . . : 172.15.236.1
        DHCP Server . . . . . . . . . . . : 172.15.3.2
        DNS Servers . . . . . . . . . . . : 10.4.8.1
                                            10.5.2.22
        Primary WINS Server . . . . . . . : 10.69.2.87
        Secondary WINS Server . . . . . . : 10.69.235.228
        Lease Obtained. . . . . . . . . . : Monday, June 11, 2007 9:26:45 AM
        Lease Express . . . . . . . . . . : Thursday, June 14, 2007 9:26:45 AM

Ethernet adapter Local Area Connection:

        Media State . . . . . . . . . . . : Cable Disconnected
        Description . . . . . . . . . . . : Cisco Systems Wireless LAN Adapter

        Physical Address. . . . . . . . . : 00-0E-9B-48-86-2A
```

What two things can the technician determine by successfully pinging from this computer to the IP address 172.16.236.1? (Choose two)

A. The network card on the computer is functioning correctly.

B. The default static route on the gateway router is correctly configured.

C. The correct default gateway IP address is configured on the computer.

D. The device with the IP address 172.16.236.1 is reachable over the network.

E. The default gateway at 172.16.236.1 is able to forward packets to the internet.

Correct Answer: AD

The source and destination addresses are on the same network therefore, a default gateway is not necessary for communication between these two addresses.

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