# Cisco

## Exam 640-822

## Interconnecting Cisco Networking Devices Part 1

**Version: 14.1**

**[ Total Questions:   348 ]**

**CERTKILL**

**Topic 1, Multiple Choice Questions Set A**

## Question No : 1  - (Topic 1)

Which OSI layer header contains the address of a destination host that is on another network?

**A.** application
**B.** session
**C.** transport
**D.** network
**E.** data link
**F.** physical

**Answer: D**

## Question No : 2  - (Topic 1)

How does TCP differ from UDP? (Choose two.)

**A.** TCP provides best effort delivery.
**B.** TCP provides synchronized communication.
**C.** TCP segments are essentially datagrams.
**D.** TCP provides sequence numbering of packets.
**E.** TCP uses broadcast delivery.

**Answer: B,D**

## Question No : 3  - (Topic 1)

Which protocol uses a connection-oriented service to deliver files between end systems?

**A.** TFTP
**B.** DNS
**C.** FTP
**D.** SNMP
**E.** RIP

**Answer: C**

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**Question No : 4  - (Topic 1)**

Refer to the exhibit.

```
R1#sh int ser0/1
Serial0/1 is up, line protocol is down
  Hardware is GT96K Serial
  Internet address is 192.1.1.1/30
  MTU 1500 bytes, BW 1544 Kbit/sec, DLY 20000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation HDLC, loopback not set
  Keepalive set (10 sec)
```

```
R2#sh int serial 0/1
Serial0/1 is up, line protocol is down
  Hardware is GT96K Serial
  Internet address is 192.1.1.2/30
  MTU 1500 bytes, BW 1544 Kbit/sec, DLY 20000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation HDLC, loopback not set
  Keepalive set (10 sec)
```

A network technician is unable to ping from R1 to R2. What will help correct the problem?

**A.** Ensure that the serial cable is correctly plugged in to the interfaces.
**B.** Apply the clock rate 56000 configuration command to the serial0/1 interface of R1.
**C.** Configure the serial0/1 interfaces on R1 and R2 with the no shutdown command.
**D.** Change the address of the serial0/1 interface of R1 to 192.1.1.4.
**E.** Change the subnet masks of both interfaces to 255.255.255.240.

**Answer: A**

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**Question No : 5  - (Topic 1)**

Refer to the exhibit.
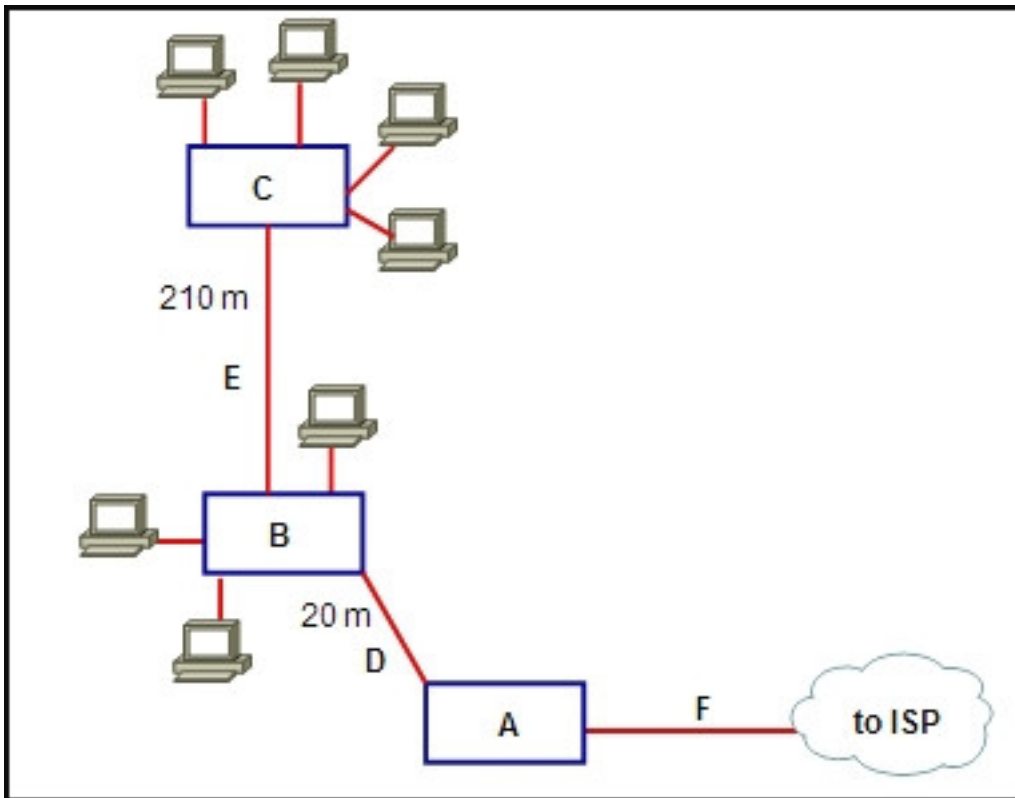
Which types of devices and connections are needed to complete the LAN for optimal performance and cost efficiency?

**A.**
A) router
B) hub
C) switch
D) UTP cable
E) fiber connection
F) fiber connection
**B.**
A) switch
B) switch
C) switch
D) UTP cable
E) fiber connection
F) T-1 connection
**C.**
A) router
B) switch
C) router
D) fiber connection
E) Cat5 cable
F) T-1 connection

**D.**
A) router
B) switch
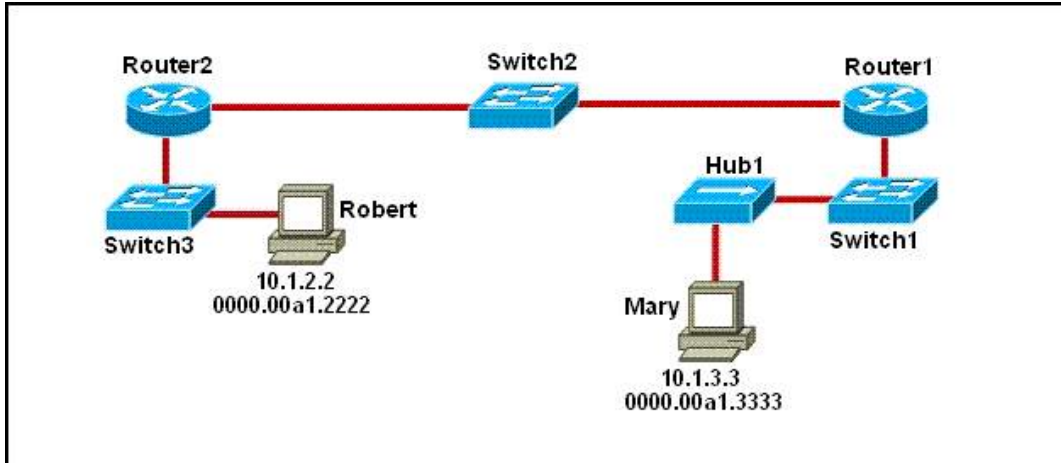C) switch
D) UTP cable
E) fiber connection
F) T-1 connection
**E.**
A) router
B) hub
C) switch
D) fiber cable
E) cat5 cable
F) T-1 connection

**Answer: D**

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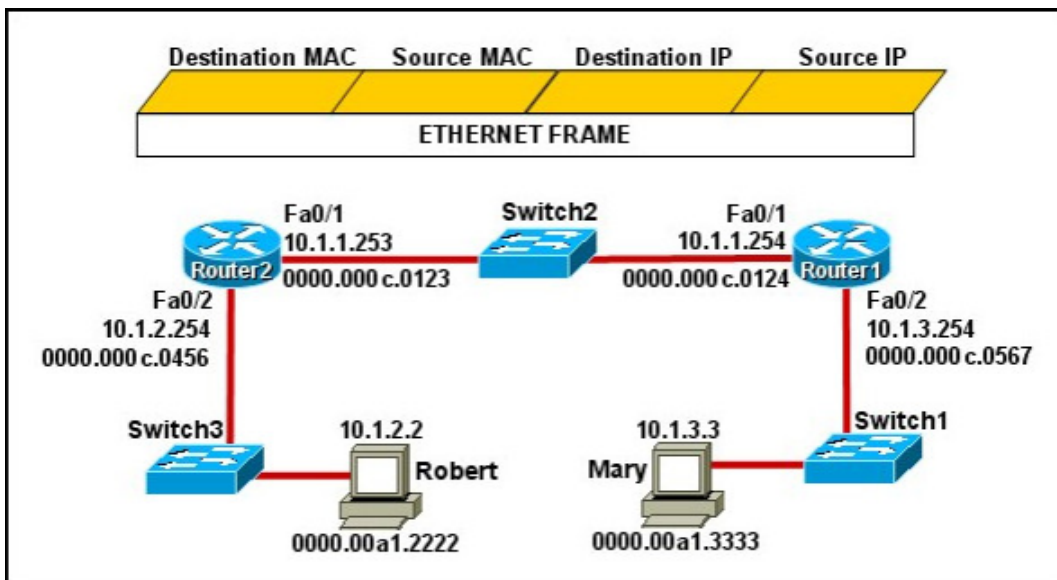**Question No : 6  - (Topic 1)**

Refer to the exhibit.



As packets travel from Mary to Robert, which three devices will use the destination MAC address of the packet to determine a forwarding path? (Choose three.)

**A.** Hub1
**B.** Switch1
**C.** Router1
**D.** Switch2
**E.** Router2
**F.** Switch3

**Answer: B,D,F**

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**Question No : 7  - (Topic 1)**

Refer to the exhibit.



Mary is sending an instant message to Robert. The message will be broken into a series of packets that will traverse all network devices. What addresses will populate these packets as they are forwarded from Router1 to Router2?

A.

| Destination MAC | Source MAC | Destination IP | Source IP |
|---|---|---|---|
| 0000.00a1.2222 | 0000.00a1.3333 | 10.1.2.2 | 10.1.3.3 |

B.

| Destination MAC | Source MAC | Destination IP | Source IP |
|---|---|---|---|
| 0000.000c.0123 | 0000.000c.0124 | 10.1.2.2 | 10.1.3.3 |

C.

| Destination MAC | Source MAC | Destination IP | Source IP |
|---|---|---|---|
| 0000.000c.0123 | 0000.000c.0124 | 10.1.1.253 | 10.1.1.254 |

D.

| Destination MAC | Source MAC | Destination IP | Source IP |
|---|---|---|---|
| 0000.00a1.2222 | 0000.00a1.3333 | 10.1.1.253 | 10.1.1.254 |

E.

| Destination MAC | Source MAC | Destination IP | Source IP |
|---|---|---|---|
| 0000.000c.0456 | 0000.000c.0567 | 10.1.2.2 | 10.1.3.3 |

**A.** Exhibit A
**B.** Exhibit B
**C.** Exhibit C
**D.** Exhibit D
**E.** Exhibit E

**Answer: B**

**Question No : 8  - (Topic 1)**

Refer to the exhibit.
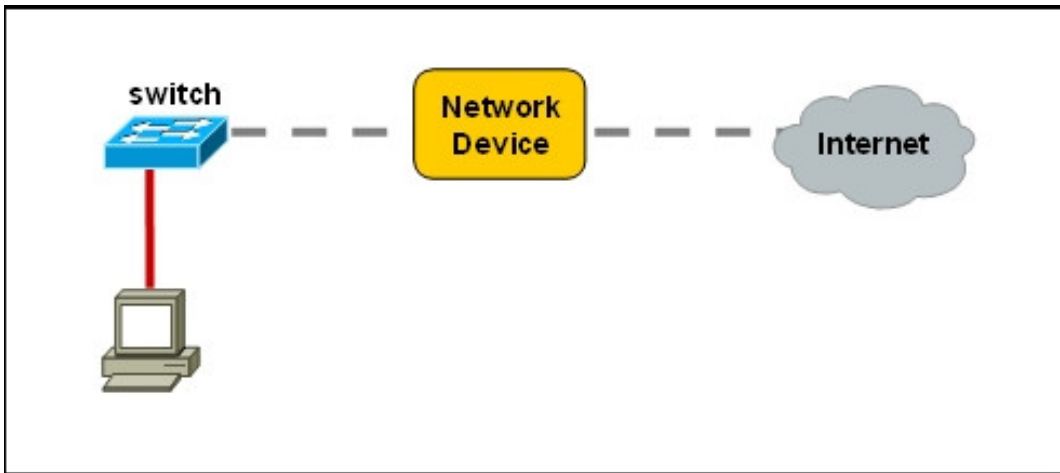
A network device needs to be installed in the place of the icon labeled Network Device to accommodate a leased line attachment to the Internet. Which network device and interface configuration meets the minimum requirements for this installation?

**A.** a router with two Ethernet interfaces
**B.** a switch with two Ethernet interfaces
**C.** a router with one Ethernet and one serial interface
**D.** a switch with one Ethernet and one serial interface
**E.** a router with one Ethernet and one modem interface

**Answer: C**

## Question No : 9 - (Topic 1)

What technology should be used when a router that connects to a LAN has only one WAN interface, but multiple virtual circuits are needed?

**A.** ATM
**B.** DSL
**C.** ADSL
**D.** Cable
**E.** Frame Relay

**Answer: E**

## Question No : 10 - (Topic 1)

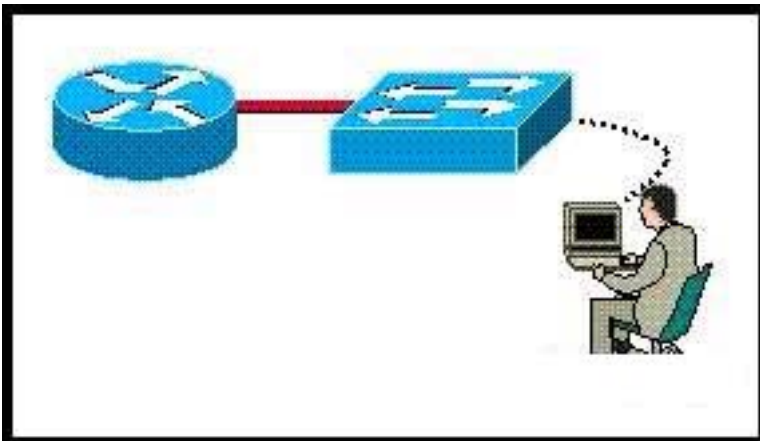The network manager states, "The only UDP port allowed on this router interface is 53."

From the statement, what can be concluded about traffic on the router interface?

**A.** DNS traffic is allowed.
**B.** RIP traffic is allowed.
**C.** SMTP traffic is allowed.
**D.** Telnet traffic is allowed.

**Answer: A**

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**Question No : 11  - (Topic 1)**

SW-C has just been added to the network shown in the graphic.



What is the purpose of assigning a default gateway to this switch?

**A.** allows connectivity to Router B from the switch prompt
**B.** allows console port connectivity to the switch from Host A
**C.** allows connectivity to remote network devices from Host B
**D.** allows the switch to pass traffic between Host A and Host B

**Answer: A**

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**Question No : 12  - (Topic 1)**

Refer to the topology and MAC address table shown in the exhibit.
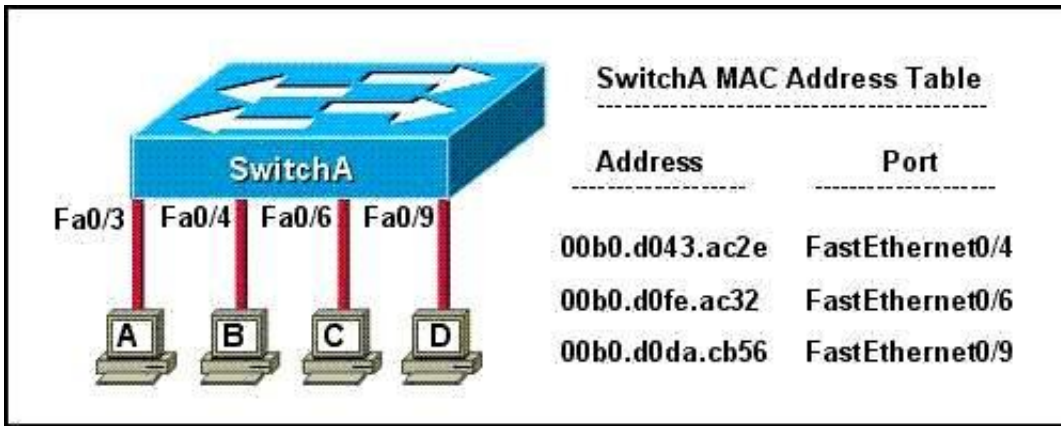
Host A sends a data frame to host D. What will the switch do when it receives the frame from host A?

**A.** The switch will add the source address and port to the MAC address table and forward the frame to host D.
**B.** The switch will discard the frame and send an error message back to host A.
**C.** The switch will flood the frame out of all ports except for port Fa0/3.
**D.** The switch will add the destination address of the frame to the MAC address table and forward the frame to host D.

**Answer: A**

**Question No : 13  - (Topic 1)**

Refer to the exhibits labeled A through E.