Vendor: Cisco

Exam Code: 100-101

Exam Name: Interconnecting Cisco Networking Devices Part 1 (ICND1) v2.0

Version: Demo

QUESTION 1

Which three statements are true about the operation of a full-duplex Ethernet network? (Choose three.)

A. There are no collisions in full-duplex mode.
B. A dedicated switch port is required for each full-duplex node.
C. Ethernet hub ports are preconfigured for full-duplex mode.
D. In a full-duplex environment, the host network card must check for the availability of the network media before transmitting.
E. The host network card and the switch port must be capable of operating in full-duplex mode.

Correct Answer: ABE

QUESTION 2
Drag and Drop

On the left are various network protocols. On the right are the layers of the TCP/IP model. Assuming a reliable connection is required, move the protocols on the left to the TCP/IP layers on the right to show the proper encapsulation for an email message sent by a host on a LAN. (Not all options are used.)

UDP	application layer
SNMP	transport layer
IP	internet layer
ARP	network access layer
Ethernet	
TCP	
SMTP	

Correct Answer:

On the left are various network protocols. On the right are the layers of the TCP/IP model. Assuming a reliable connection is required, move the protocols on the left to the TCP/IP layers on the right to show the proper encapsulation for an email message sent by a host on a LAN. (Not all options are used.)

UDP	SMTP
SNMP	TCP
IP	IP
ARP	Ethernet
Ethernet	
TCP	
SMTP	

QUESTION 3

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

Correct Answer: D

QUESTION 4

Which layer of the TCP/IP stack combines the OSI model physical and data link layers?

A. Internet layer
B. transport layer
C. application layer
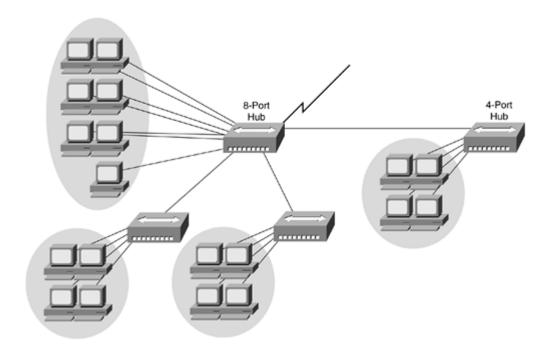D. network access layer

Correct Answer: D

QUESTION 5

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

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

Correct Answer: C

QUESTION 6

Refer to the exhibit. If the hubs in the graphic were replaced by switches, what would be virtually eliminated?
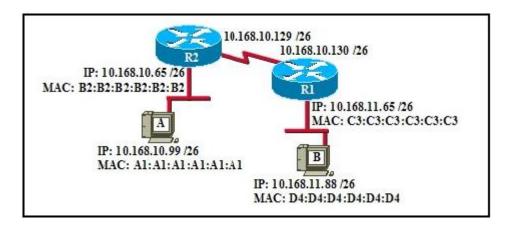

A. broadcast domains
B. repeater domains
C. Ethernet collisions

D. signal amplification
E. Ethernet broadcasts

Correct Answer: C

QUESTION 7
Refer to the exhibit. If host A sends an IP packet to host B, what will the source physical address be in the frame when it reaches host B?
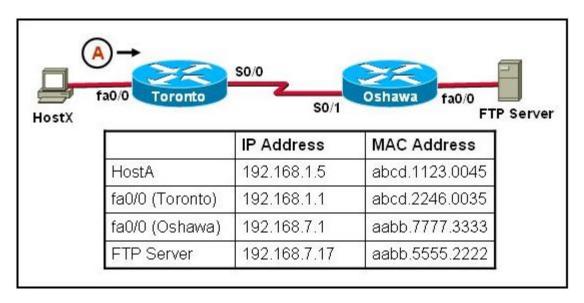

A. 10.168.10.99
B. 10.168.11.88
C. A1:A1:A1:A1:A1:A1
D. B2:B2:B2:B2:B2:B2
E. C3:C3:C3:C3:C3:C3
F. D4:D4:D4:D4:D4:D4

Correct Answer: E

QUESTION 8
Refer to the exhibit. HostX is transferring a file to the FTP server. Point A represents the frame as it goes toward the Toronto router. What will the Layer 2 destination address be at this point?

	IP Address	MAC Address
HostA	192.168.1.5	abcd.1123.0045
fa0/0 (Toronto)	192.168.1.1	abcd.2246.0035
fa0/0 (Oshawa)	192.168.7.1	aabb.7777.3333
FTP Server	192.168.7.17	aabb.5555.2222

A. abcd.1123.0045
B. 192.168.7.17
C. aabb.5555.2222
D. 192.168.1.1
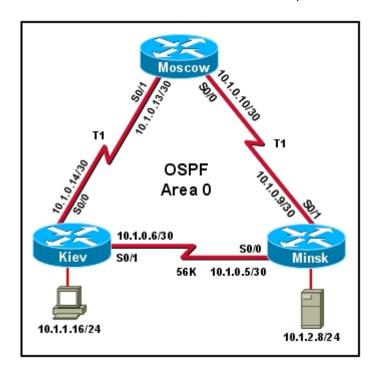E. abcd.2246.0035

Correct Answer: E

QUESTION 9
Which network device functions only at Layer 1 of the OSI model?

A. bridge
B. hub
C. NIC
D. router
E. switch
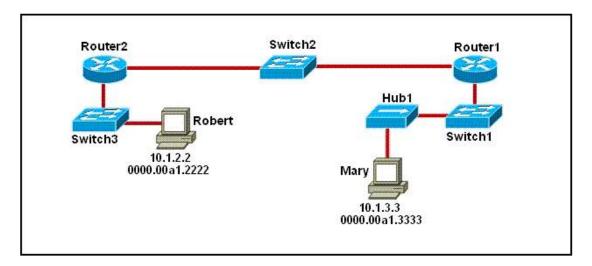
Correct Answer: B

QUESTION 10
Refer to the exhibit. The host in Kiev sends a request for an HTML document to the server in Minsk. What will be the source IP address of the packet as it leaves the Kiev router?

A. 10.1.0.1
B. 10.1.0.5
C. 10.1.0.6
D. 10.1.0.14
E. 10.1.1.16
F. 10.1.2.8

Correct Answer: E

QUESTION 11

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.)
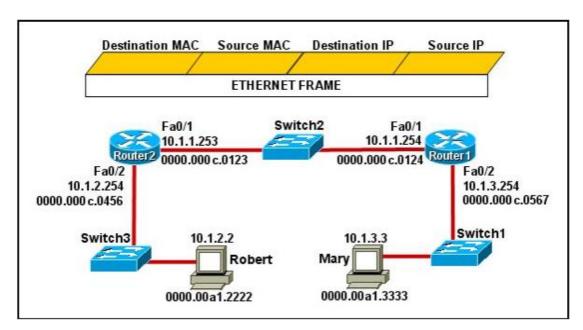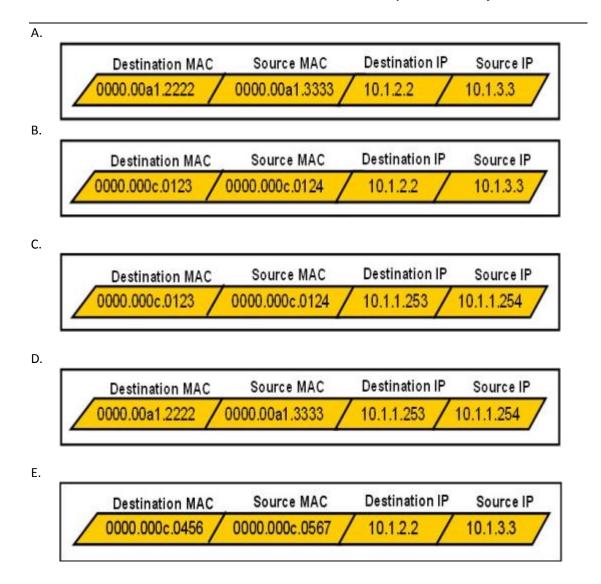

A. Hub1
B. Switch1
C. Router1
D. Switch2
E. Router2
F. Switch3

Correct Answer: BDF

QUESTION 12

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?
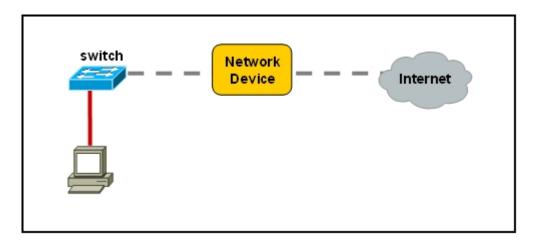
A.

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

Correct Answer: B

QUESTION 13
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

Correct Answer: C

QUESTION 14
Which transport layer protocol provides best-effort delivery service with no acknowledgment receipt required?

A. HTTP
B. IP
C. TCP
D. Telnet
E. UDP

Correct Answer: E

QUESTION 15
Which layer of the OSI model controls the reliability of communications between network devices using flow control, sequencing and acknowledgments?

A. Physical
B. Data-link
C. Transport
D. Network

Correct Answer: C

QUESTION 16
Which statements are true regarding ICMP packets? (Choose two.)

A. They acknowledge receipt of TCP segments.
B. They guarantee datagram delivery.
C. TRACERT uses ICMP packets.
D. They are encapsulated within IP datagrams.
E. They are encapsulated within UDP datagrams.

Correct Answer: CD

QUESTION 17
Which statements accurately describe CDP? (Choose three.)

A. CDP is an IEEE standard protocol.
B. CDP is a Cisco proprietary protocol.
C. CDP is a datalink layer protocol.
D. CDP is a network layer protocol.
E. CDP can discover directly connected neighboring Cisco devices.

F.   CDP can discover Cisco devices that are not directly connected.

Correct Answer: BCE

QUESTION 18
How does a switch differ from a hub?

A.   A switch does not induce any latency into the frame transfer time.
B.   A switch tracks MAC addresses of directly-connected devices.
C.   A switch operates at a lower, more efficient layer of the OSI model.
D.   A switch decreases the number of broadcast domains.
E.   A switch decreases the number of collision domains.

Correct Answer: B

QUESTION 19
What must occur before a workstation can exchange HTTP packets with a web server?

A.   A UDP connection must be established between the workstation and its default gateway.
B.   A UDP connection must be established between the workstation and the web server.
C.   A TCP connection must be established between the workstation and its default gateway.
D.   A TCP connection must be established between the workstation and the web server.
E.   An ICMP connection must be established between the workstation and its default gateway.
F.   An ICMP connection must be established between the workstation and the web server.

Correct Answer: D

QUESTION 20
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.
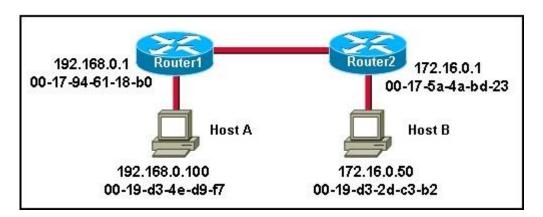E.   TCP uses broadcast delivery.

Correct Answer: BD

QUESTION 21
A workstation has just resolved a browser URL to the IP address of a server. What protocol will the workstation now use to determine the destination MAC address to be placed into frames directed toward the server?

A.   HTTP
B.   DNS
C.   DHCP
D.   RARP
E.   ARP

Correct Answer: E

QUESTION 22
Refer to the exhibit. Host A is sending a packet to Host B for the first time. What destination MAC address will Host A use in the ARP request?

A. 192.168.0.1
B. 172.16.0.50
C. 00-17-94-61-18-b0
D. 00-19-d3-2d-c3-b2
E. ff-ff-ff-ff-ff-ff
F. 255.255.255.255

Correct Answer: E

QUESTION 23
What are two common TCP applications? (Choose two.)

A. TFTP
B. SMTP
C. SNMP
D. FTP
E. DNS

Correct Answer: BD

QUESTION 24
Refer to the exhibit. SwitchA receives the frame with the addressing shown. According to the command output also shown in the exhibit, how will SwitchA handle this frame?

```
SwitchA# show mac-address-table
< non-essential output omitted >
    Destination Address  Address Type  VLAN  Destination Port
    -------------------  ------------  ----  -------------------
    00b0.d056.fe4d       Dynamic        1    FastEthernet0/3
    00b0.d043.ac2e       Dynamic        1    FastEthernet0/4
    00b0.d0fe.ac32       Dynamic        1    FastEthernet0/5
    00b0.d0da.cb56       Dynamic        1    FastEthernet0/6

Frame received by SwitchA:
```

Source MAC	Destination MAC	Source IP	Destination IP
00b0.d056.fe4d	00b0.d0da.cb56	192.168.40.5	192.168.40.6

A. It will drop the frame.
B. It will forward the frame out port Fa0/6 only.
C. It will flood the frame out all ports.
D. It will flood the frame out all ports except Fa0/3.

Correct Answer: B

QUESTION 25
Refer to the exhibit. SwitchA receives the frame with the addressing shown in the exhibit.
According to the command output also shown in the exhibit, how will SwitchA handle this frame?
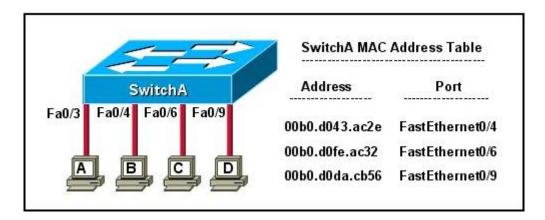
```
SwitchA# show mac-address-table
< non-essential output omitted >
    Destination Address  Address Type  VLAN  Destination Port
    -------------------  ------------  ----  -------------------
    00b0.d056.fe4d       Dynamic        1    FastEthernet0/3
    00b0.d043.ac2e       Dynamic        1    FastEthernet0/4
    00b0.d0fe.ac32       Dynamic        1    FastEthernet0/5
    00b0.d0da.cb56       Dynamic        1    FastEthernet0/6

Frame received by SwitchA:
```

Source MAC	Destination MAC	Source IP	Destination IP
00b0.d056.fe4d	00b0.d0da.895a	192.168.40.5	192.168.40.6

A. It will drop the frame.
B. It will forward the frame out port Fa0/6 only.
C. It will forward the frame out port Fa0/3 only.
D. It will flood the frame out all ports.
E. It will flood the frame out all ports except Fa0/3.

Correct Answer: E

QUESTION 26
Refer to the exhibit. The exhibit is showing the topology and the MAC address table. 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.
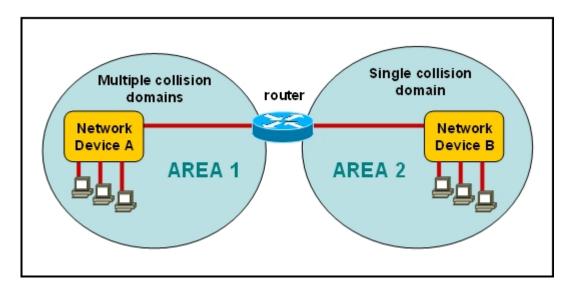
Correct Answer: A

QUESTION 27
Which two statements describe the operation of the CSMA/CD access method? (Choose two.)

A. In a CSMA/CD collision domain, multiple stations can successfully transmit data simultaneously.
B. In a CSMA/CD collision domain, stations must wait until the media is not in use before transmitting.
C. The use of hubs to enlarge the size of collision domains is one way to improve the operation of the CSMA/CD access method.
D. After a collision, the station that detected the collision has first priority to resend the lost data.
E. After a collision, all stations run a random backoff algorithm. When the backoff delay period has expired, all stations have equal priority to transmit data.
F. After a collision, all stations involved run an identical backoff algorithm and then synchronize with each other prior to transmitting data.

Correct Answer: BE

QUESTION 28
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.
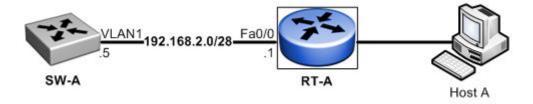F. Area 2 contains a Layer 2 device.

Correct Answer: ADE

QUESTION 29
On a Cisco switch, which protocol determines if an attached VoIP phone is from Cisco or from another vendor?

A. RTP
B. TCP
C. CDP
D. UDP

Correct Answer: C

QUESTION 30
Refer to the exhibit. What must be configured to establish a successful connection from Host A to switch SW-A through router RT-A?

A. VLAN 1 on RT-A
B. IP routing on SW-A
C. default gateway on SW-A
D. crossover cable connecting SW-A and RT-A

Correct Answer: C

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300-208	640-864	CLO-001	SK0-003	1Z0-474	VCP5-DCV	RedHat
350-018	642-467	ISS-001	SY0-301	1Z0-482	VCP510PSE	EX200
352-001	642-813	JK0-010	SY0-401	1Z0-485		EX300
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