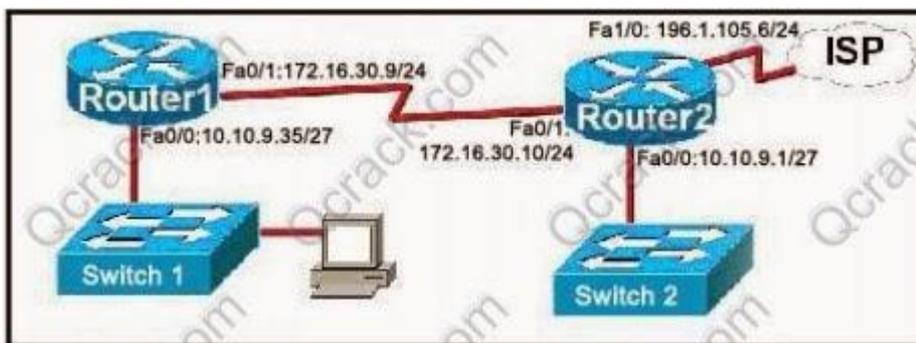


CCNA 1 Practice Final Exam Answers v4.0 100%

1. Which OSI layers offers reliable, connection-oriented data communication services?

application
 presentation
 session
transport
 network

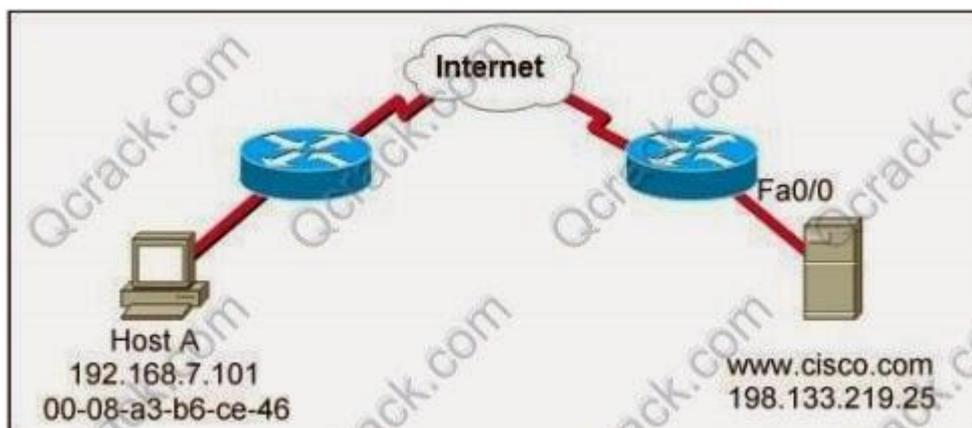
2.



Refer to the exhibit. The host was disconnected from switch 2 and connected to switch 1. Which combination of IP address, subnet mask, and default gateway should be assigned to this host to allow it to function in the network?

IP address: 10.10.9.37 Subnet mask: 255.255.255.240 Default gateway: 10.10.9.35
IP address: 10.10.9.37 Subnet mask: 255.255.255.224 Default gateway: 10.10.9.35
 IP address: 10.10.9.29 Subnet mask: 255.255.255.248 Default gateway: 10.10.9.35
 IP address: 10.10.9.32 Subnet mask: 255.255.255.224 Default gateway: 10.10.9.35
 IP address: 10.10.9.37 Subnet mask: 255.255.255.224 Default gateway: 196.1.105.6
 IP address: 10.10.9.63 Subnet mask: 255.255.255.224 Default gateway: 10.10.9.35

3.



Refer to the exhibit. What is the correct destination socket number for a web page request from Host A to the web server?

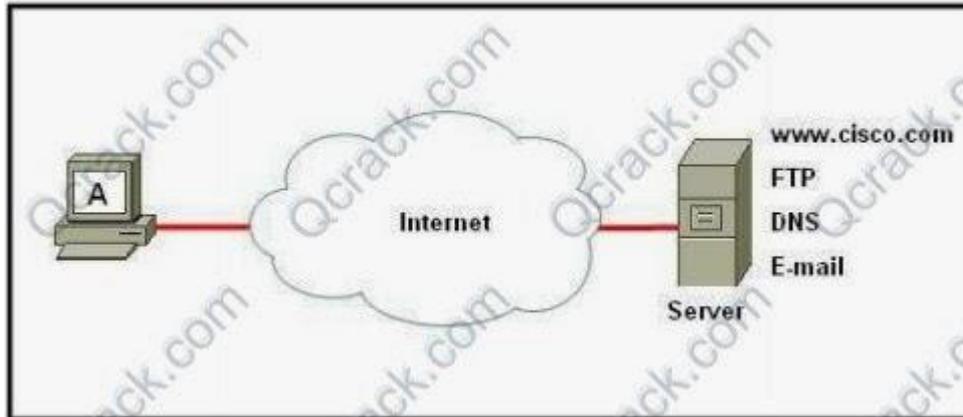
00-08-a3-b6-ce-46

198.133.219.25:80

http://www.cisco.com

C 198.133.219.0/24 is directly connected, FastEthernet0/0

4.



Refer to the exhibit. How will data files get retrieved from the server?

The client establishes a two-way connection to the server on port 21 for file transfer. From the perspective of computer A, port 21 is used to signal a push to the server, and port 20 is used to signal a pull from the server.

There is a connection established to send files from the client to the server and a second connection to get files from the server to the client.

Computer A establishes a connection to the server on port 21 for control and uses a second connection on port 20 to download and upload files.

5. Which three IPv4 addresses represent a broadcast for a subnet? (Choose three.)

172.16.4.63 /26

172.16.4.129 /26

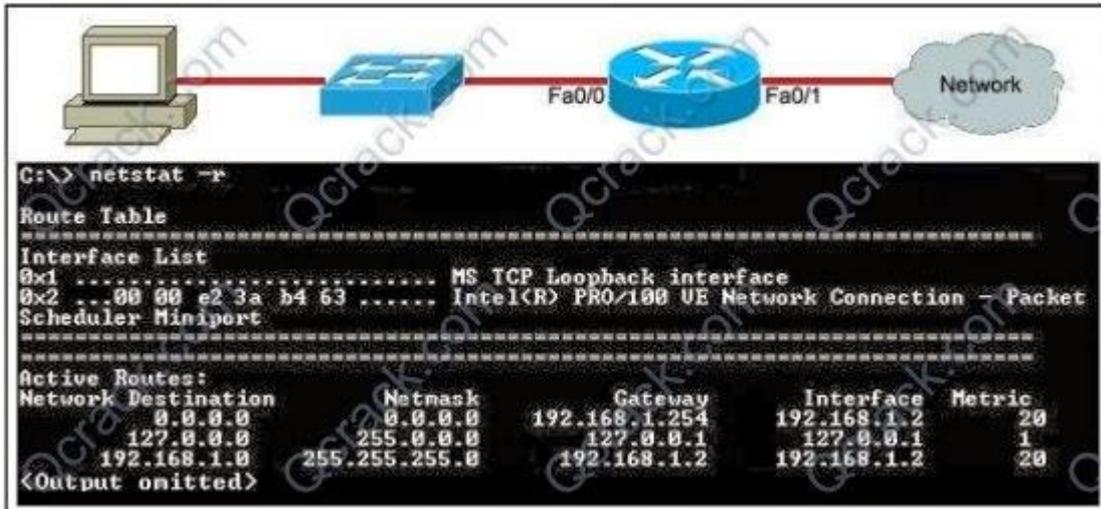
172.16.4.191 /26

172.16.4.51 /27

172.16.4.95 /27

172.16.4.221 /27

6.



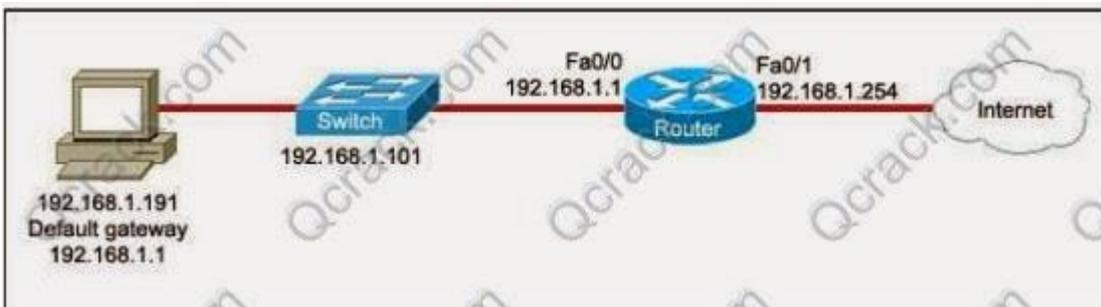
Refer to the exhibit. The PC, the routing table of which is displayed, is configured correctly. To which network device or interface does the IP address 192.168.1.254 belong?

- PC
- Switch
- router interface fa0/0
- router interface fa0/1

7. How does the transport layer allow a host to maintain multiple, simultaneous communication streams across different applications?

- It uses error control mechanisms.
- It uses a connectionless protocol only for multiple simultaneous transmissions.
- It uses multiple Layer 2 source addresses.
- It uses multiple ports.

8.



Refer to the exhibit. The NAT functionality of the router is enabled to provide Internet access to the PC. However, the PC is still unable to access the Internet. Which IP address should be changed to 209.165.201.1 to enable the PC to access the Internet?

192.168.1.191
192.168.1.101
192.168.1.1
192.168.1.254

9.

```
C:\WINDOWS\system32\cmd.exe
C:\> nslookup
Default Server: resolver1.xyz.local
Address: 10.10.10.32

>www.abcd.com
server : resolver1.xyz.local
Address: 10.10.10.32

Name: www.abcd.com
Address: 192.168.1.5

>www.klmn.com
server : resolver1.xyz.local
Address: 10.10.10.32

Name: www.klmn.com
Address: 192.168.1.99

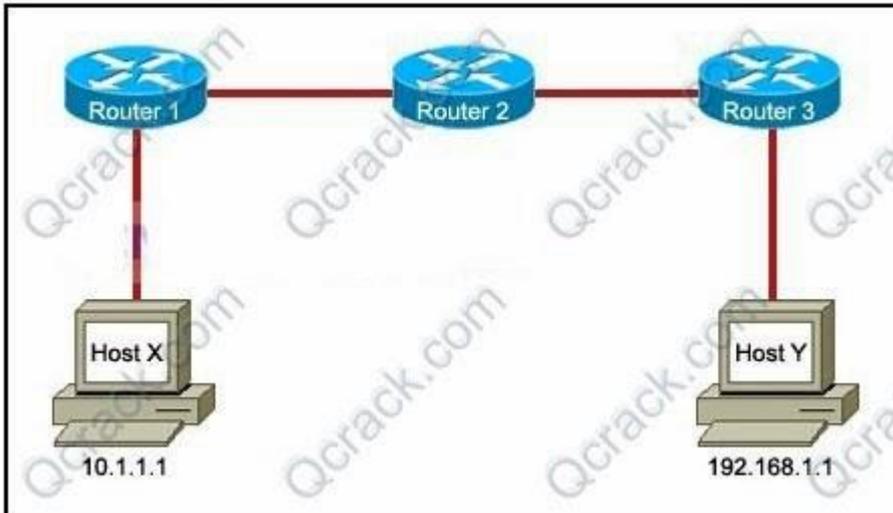
>www.trivi.com
server : resolver1.xyz.local
Address: 10.10.10.32

Name: www.trivi.com
Address: 192.168.2.100
```

Refer to the exhibit. A technician uses the nslookup command on the PC and views the output that is displayed in the exhibit. What is the IP address of the primary domain name server used by the host?

10.10.10.32
192.168.1.5
192.168.1.99
192.168.2.100

10.



Refer to the exhibit. Host X is unable to communicate with host Y. Which command can be run at host X to determine which intermediary device is responsible for this failure?

telnet 192.168.1.1
ping 192.168.1.1
ftp 192.168.1.1
tracert 192.168.1.1

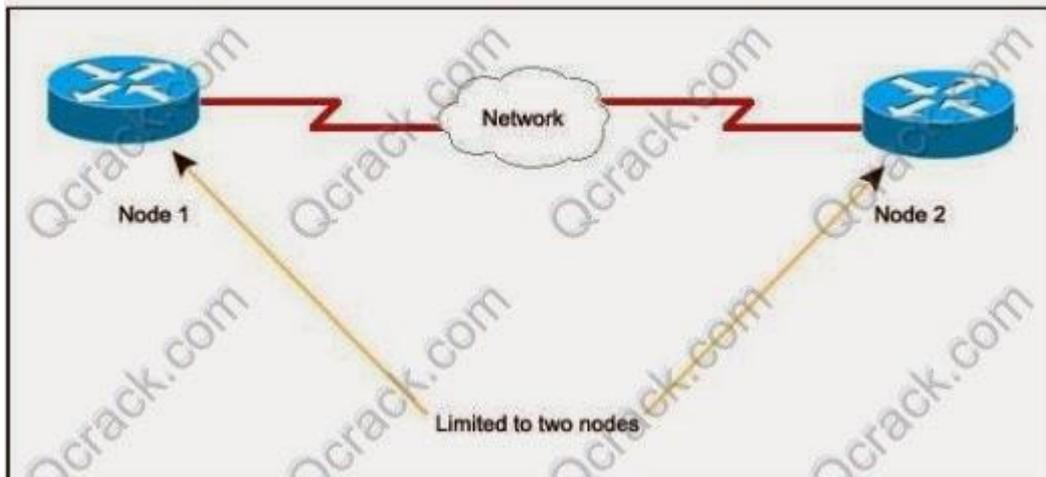
11. In a Cisco IOS device, where is the startup-configuration file stored?

Flash
NVRAM
RAM
ROM

12. A host is transmitting a video over the network. How does the transport layer allow this host to use multiple applications to transmit other data at the same time as the video transmission?

It uses error control mechanisms.
It uses a connectionless protocol only for multiple simultaneous transmissions.
It uses multiple Layer 2 source addresses.
It uses multiple port numbers.

13.



Refer to the exhibit. Which logical topology describes the exhibited network?

star

ring

point-to-point

multi-access

14. A user types the enable command. What task can be performed at the privileged EXEC mode?

Configure the device.

Configure individual interfaces.

Configure individual terminal lines.

Issue **show** and **debug** commands.

15. Which type of media is immune to EMI and RFI? (Choose two.)

10 Base-T

10 Base-2

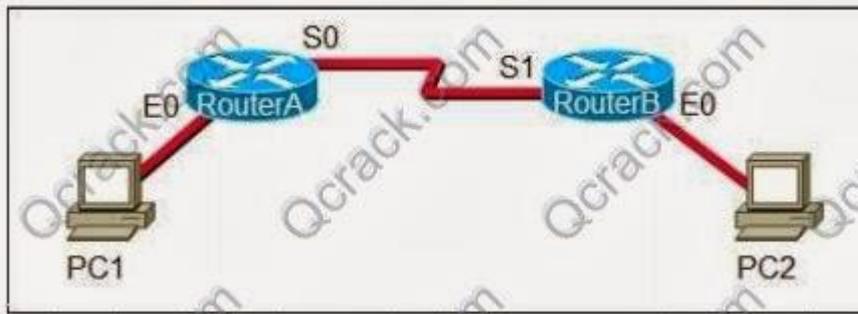
10 Base-5

100 Base-FX

100 Base TX

1000 Base LX

16.



Refer to the exhibit. The network administrator remotely accesses the CLI of RouterB from PC1 using a secure connection. Which statement is true about this connection?

The Telnet server process is running on PC1.

Only the exchange of the Telnet username and password is encrypted.

The GET request is sent to RouterA to retrieve data.

The SSH service is used to connect PC1 to RouterB.

17. Which three addresses belong to the category of private IP addresses? (Choose three.)

10.0.0.1

127.0.0.1

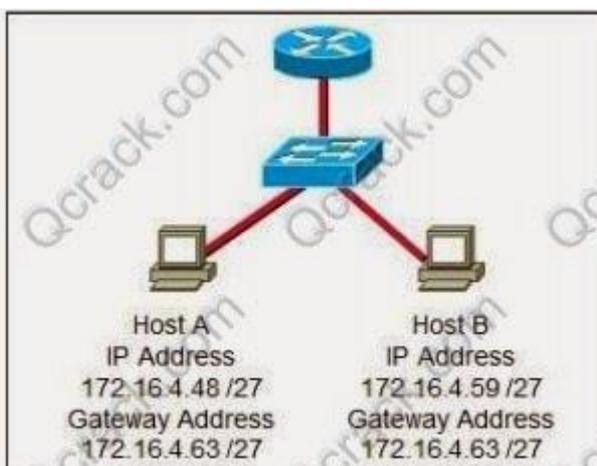
150.0.0.1

172.16.0.1

192.168.0.1

200.100.50.1

18.



Refer to the exhibit. On the basis of the IP configuration that is shown, what is the reason that Host A and Host B are unable to communicate outside the local network?

Host A was assigned a network address.
Host B was assigned a multicast address.
Host A and Host B belong to different networks.

The gateway address was assigned a broadcast address.

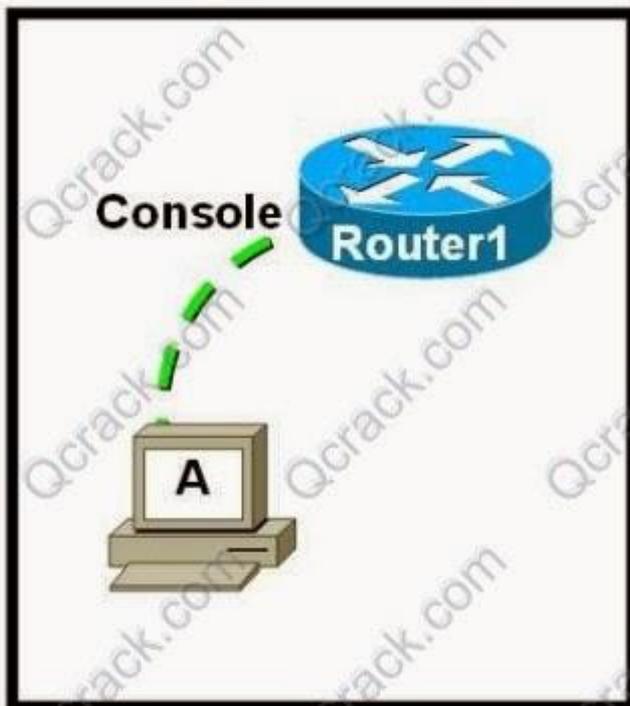
19. Which three statements are true about network layer addressing? (Choose three.)

It uniquely identifies each host.
It assists in forwarding packets across internetworks.
It uses a logical 32-bit IPv4 address.
It is not a configurable address.
It is a physical address.
It identifies the host from the first part of the address.

20. Which device should be used for routing a packet to a remote network?

access switch
DHCP server
hub
router

21.



Refer to the exhibit. What is required on host A for a network technician to create the initial configuration on Router1?

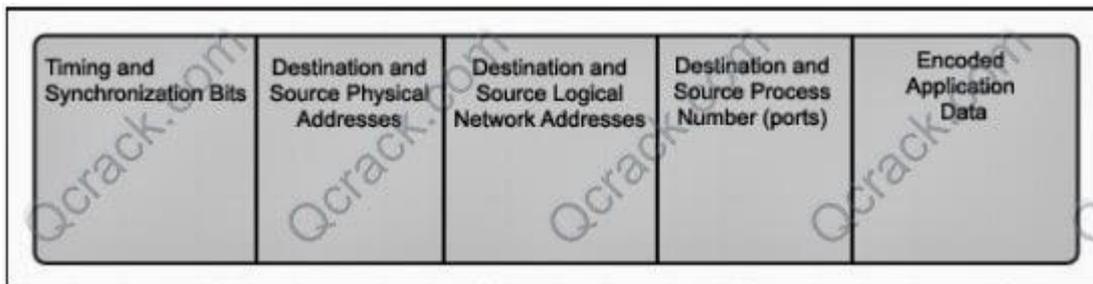
an FTP client

- a Telnet client
- a terminal emulation program**
- a web browser

22. As network administrator, what is the subnet mask that allows 510 hosts given the IP address 172.30.0.0?

- 255.255.0.0
- 255.255.248.0
- 255.255.252.0
- 255.255.254.0**
- 255.255.255.0
- 255.255.255.128

23.



Refer to the exhibit. The headers added at each layer are shown. Which layer adds the destination and source process numbers to ensure that data is delivered to the correct application?

- physical layer
- data link layer
- network layer
- transport layer**

24. What is the result of using the clock rate 56000 command at the serial interface of the router?

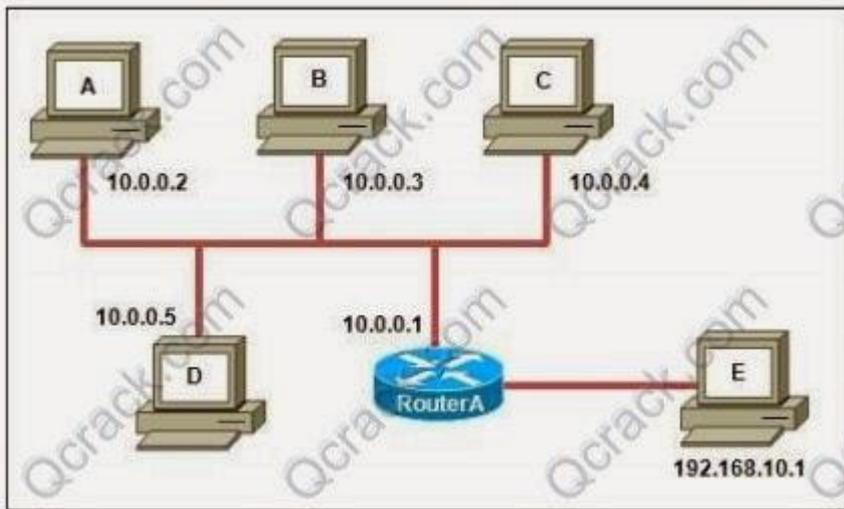
The interface is configured as a DCE device.

The interface timers are cleared.

The FastEthernet interface is made to emulate a serial interface by assigning it a timing signal.

The IP address for the serial interface is configured.

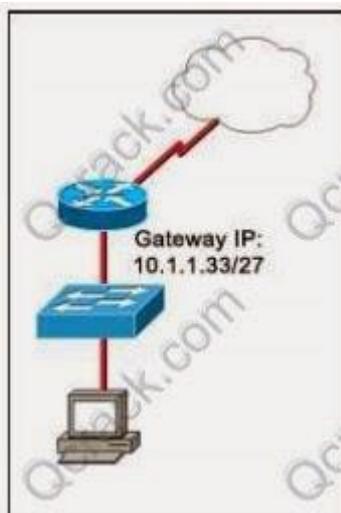
25.



Refer to the exhibit. Host A uses router A as its default gateway. If host A sends an ICMP echo request to 172.16.10.0, what ICMP response will host A receive.

- echo reply
- source quench
- route redirection
- destination unreachable

26.



Refer to the exhibit. A host is using NAT to connect to the Internet. Which three IP addresses enable this connection? (Choose three.)

- 10.1.1.63
- 10.1.1.37
- 10.1.1.39
- 10.1.1.32

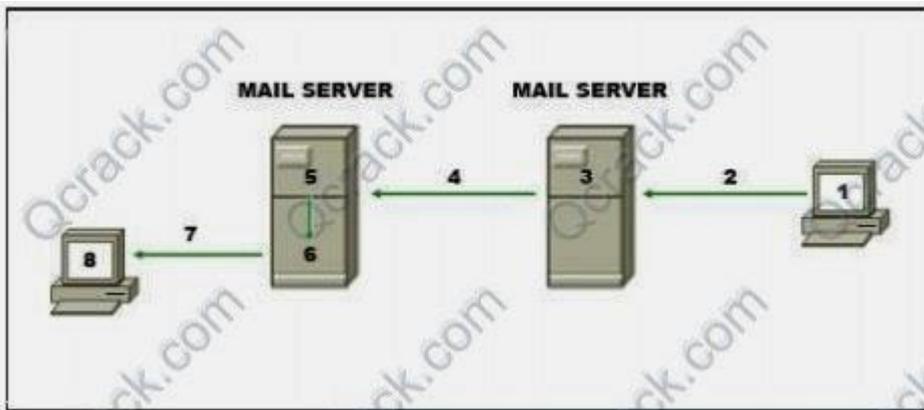
10.1.1.60

10.1.1.2

27. Which OSI layer uses the header information to reassemble the data segments into streams?

- application layer
- network layer
- presentation layer
- session layer
- transport layer**

28.



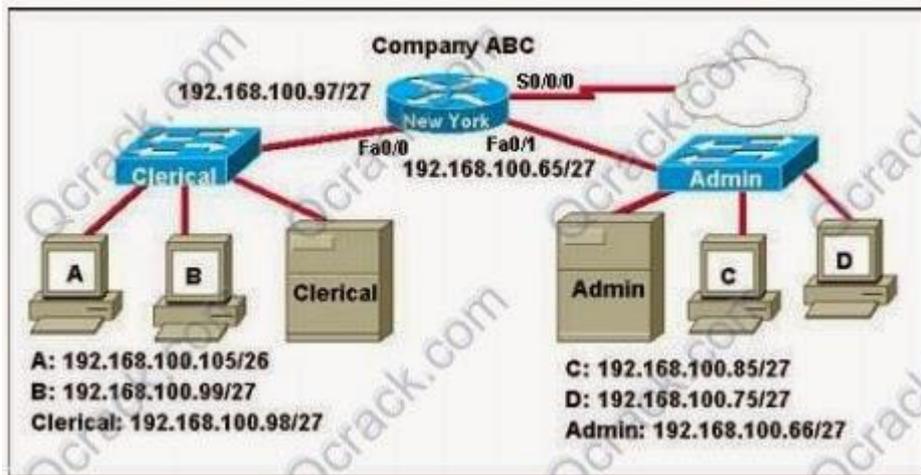
Refer to the exhibit. The diagram represents the process of sending email between clients. Select the list below that correctly identifies the component or protocol used at each numbered stage of the diagram.

- 1.MUA 2.MDA 3.MTA 4.SMTP 5.MTA 6.POP 7.MDA 8.MUA
- 1.MUA 2.POP 3.MDA 4.SMTP 5.MTA 6.MDA 7.SMTP 8.MUA
- 1.MUA 2.POP 3.SMTP 4.MDA 5.MTA 6.SMTP 7.POP 8.MUA
- 1.MDA 2.SMTP 3.MTA 4.SMTP 5.MTA 6.MUA 7.POP 8.MDA
- 1.MUA 2.SMTP 3.MTA 4.SMTP 5.MTA 6.MDA 7.POP 8.MUA**

29. Which three statements characterize the transport layer protocols? (Choose three.)

- TCP and UDP port numbers are used by application layer protocols.**
- TCP uses port numbers to provide reliable transportation of IP packets.
- UDP uses windowing and acknowledgments for reliable transfer of data.
- TCP uses windowing and sequencing to provide reliable transfer of data.**
- TCP is a connection-oriented protocol. UDP is a connectionless protocol.**

30.



Examine the graphic with current configurations. Host A in the Clerical office failed and was replaced. Although a ping to 127.0.0.1 was successful, the replacement computer cannot access the company network. With proxy ARP disabled on the Fa0/0 interface of the New York router, what is the likely cause of the problem?

- network card failure
- network cables unplugged
- IP address incorrectly entered
- subnet mask incorrectly entered**

31. Which fiber connector supports full-duplex Ethernet?



32. What purpose does a hostname serve on a router?

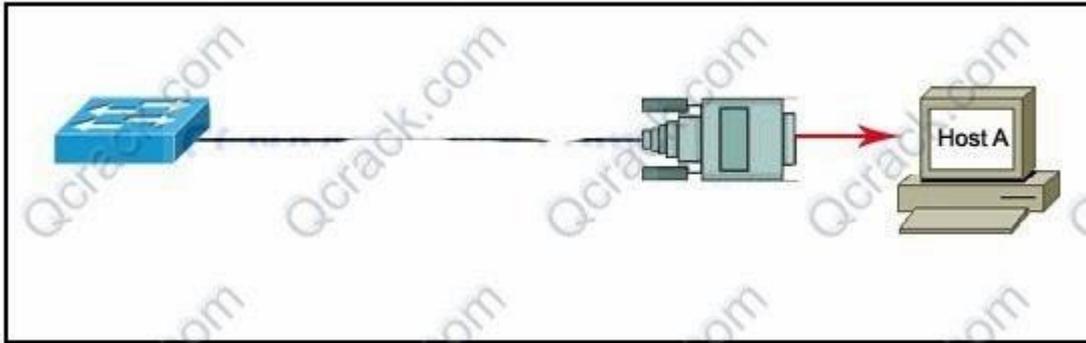
- uniquely identifies a router on the internet
- used by routing protocols to identify peer routers
- provides device identification to users logging on remotely**
- determines the hosts that are allowed to connect to the device

33. Which range of port numbers is assigned dynamically to client applications when initiating a connection to the server?

- 0 to 255
- 0 to 1023
- 1024 to 49151**

greater than 65535

34.



Refer to the exhibit. A network technician wants to connect host A to the console of a Cisco switch to initialize the configuration. What type of cable is required for this connection?

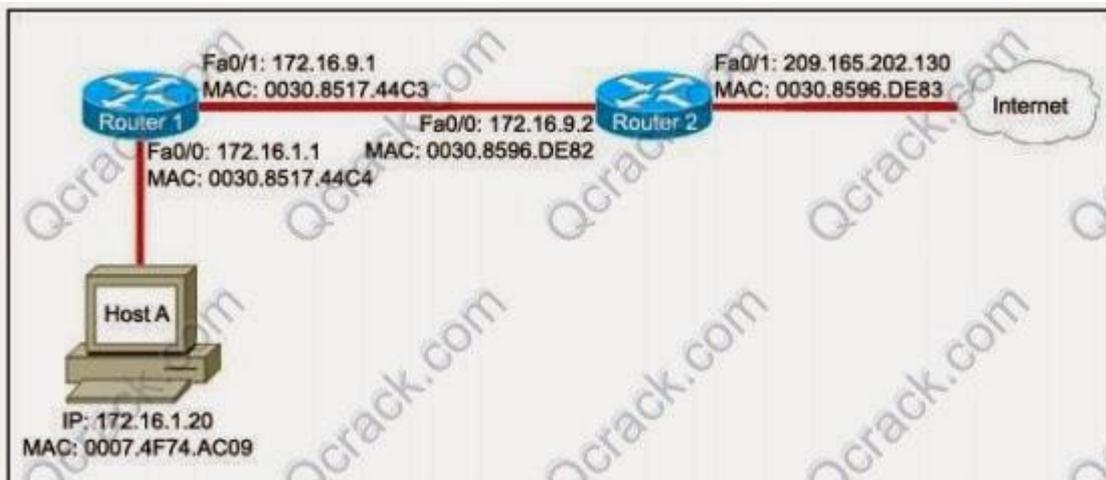
straight-through cable

crossover cable

rollover cable

serial cable

35.



Refer to the exhibit. Host A wants to access the Internet. Which combination of a Layer 2 address and a Layer 3 address will enable this access from host A?

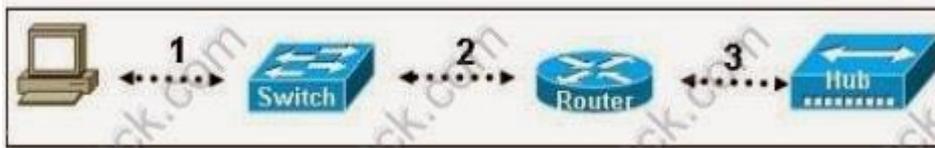
Destination MAC: 0030.8596.DE83 Default gateway: 209.165.202.130

Destination MAC: 0030.8596.DE82 Default gateway: 172.16.9.2

Destination MAC: 0030.8517.44C4 Default gateway: 172.16.1.1

Destination MAC: 0030.8517.44C4 Default gateway: 209.165.202.130

36.



Refer to the exhibit. Each media link is labeled. What type of cable should be used to connect the different devices?

Connection 1 – rollover cable Connection 2 – straight-through cable Connection 3 – crossover cable

Connection 1 – straight-through cable Connection 2 – crossover cable Connection 3 – rollover cable

Connection 1 – crossover cable Connection 2 – rollover cable Connection 3 – straight-through cable

Connection 1 – crossover cable Connection 2 – straight-through cable Connection 3 – rollover cable

Connection 1 – straight-through cable Connection 2 – straight-through cable
 Connection 3 – straight-through cable

37. The Layer 4 header contains which type of information to aid in the delivery of data?

- service port number
- host logical address
- device physical address
- virtual connection identifier

38.

```

B#show ip interface brief
Interface IP-Address OK? Method Status Protocol
FastEthernet0/0 192.168.1.62 YES manual up up
FastEthernet0/1 192.168.1.254 YES manual administratively down down
Serial0/0/0 192.168.1.2 YES manual up up
Serial0/0/1 192.168.1.5 YES manual up up
B#
    
```

Refer to the exhibit. The network containing router B is experiencing problems. A network associate has isolated the issue in this network to router B. What action can be preformed to correct the network issue?

- issue the **clock rate** command on interface Serial 0/0/0
- issue the **description** command on interface Serial 0/0/1

issue the **ip address** command on interface FastEthernet 0/0
 issue the **no shutdown** command on interface FastEthernet 0/1

39.

Partial Layer 4 Header			
Bit 0	Bit 16		Bit 31
Source Port	13357	Destination Port	23
Sequence Number	3001		
Header Length, Reserved, Code Bits	Window	1500	

Refer to the exhibit. Which two statements describe the information that is represented in the header? (Choose two.)

This is a server response.

The UDP protocol is being used.

The destination port indicates a Telnet session.

The return segment will contain a source port of 23.

The next session originated from the client of this session will use the source port number 13358.

40. What information is used at each hop to determine where the packet will be forwarded next?

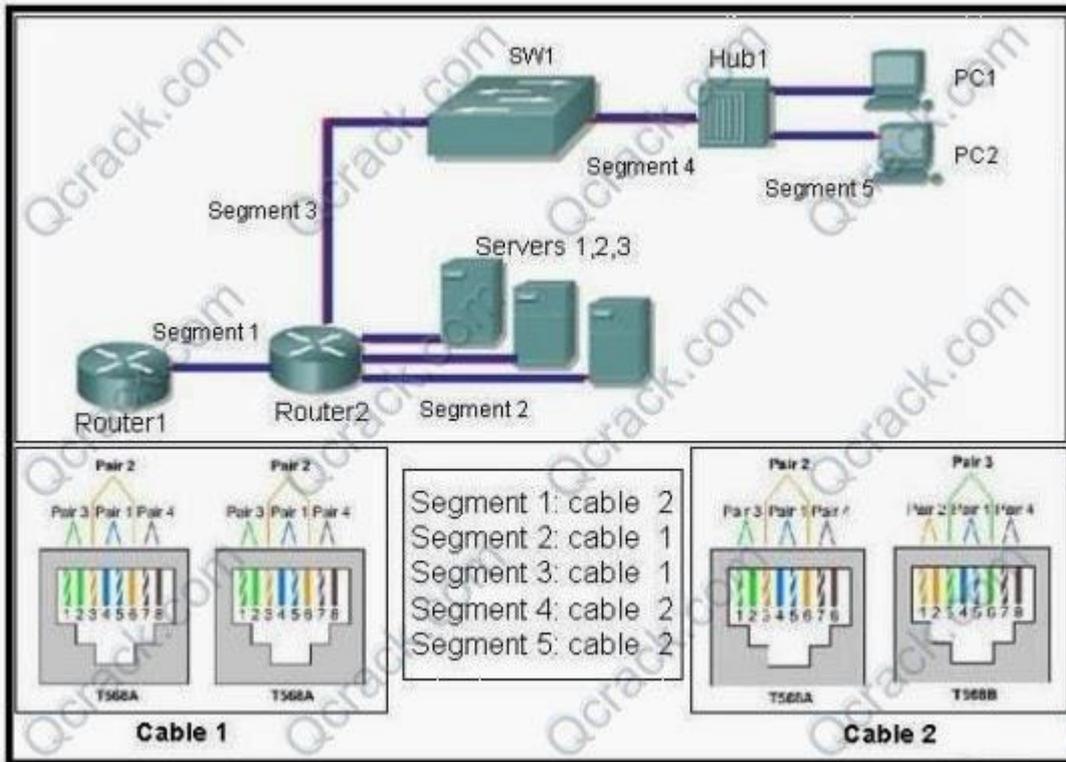
the IP packet header

the incoming interface

the transport layer PDU

the source MAC address

41.



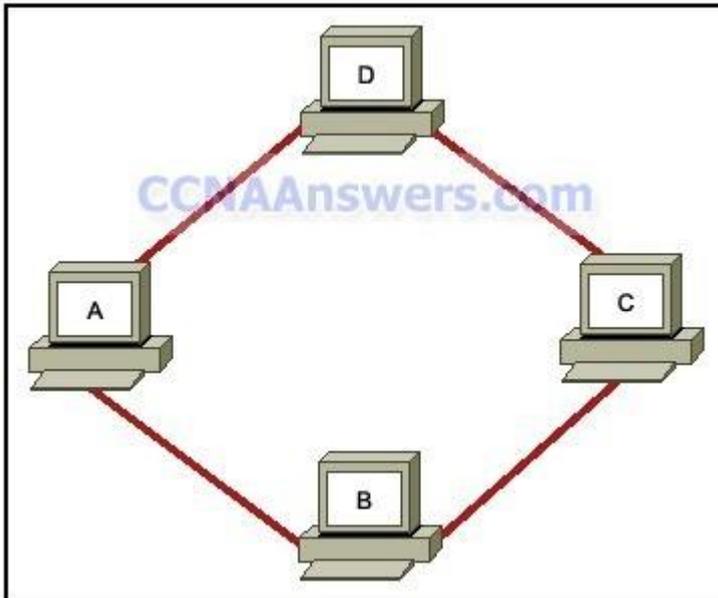
Refer to the exhibit. Cable 1 and cable 2 have the ends wired for specific physical layer requirements. The table lists each segment by number and the cable which has been installed by the network technician between the network components on that segment. From the data given, which segments have the correct cable installed? (Choose three.)

- segment1
- segment2
- segment3
- segment4
- segment5

42. An administrator has made changes to a device. The changes did not have the desired effect. What can the administrator do to restore the configuration saved in NVRAM?

- Issue the **erase flash** command.
- Issue the **reload** command and respond no to the prompt that follows.
- Issue the **erase start-up config** command.
- Issue the **copy running-config start-up config** command.

43.



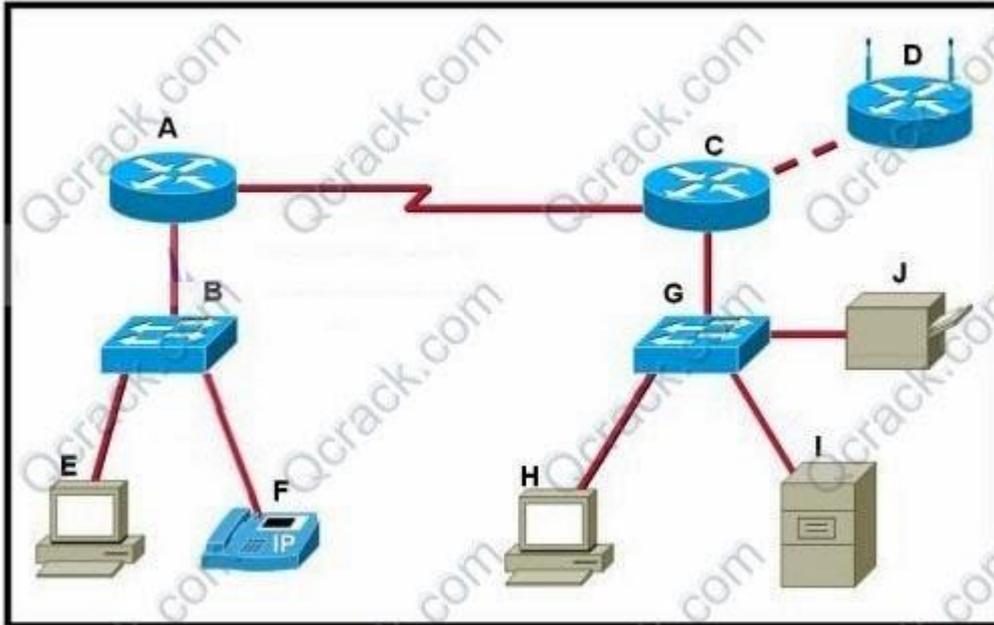
Refer to the exhibit. Which logical topology describes the exhibited network?

- star
- ring
- point-to-point
- multi-access

44. A network administrator wants to restrict access to the router privileged EXEC mode. Which password should the administrator use?

- enable
- aux
- console
- VTY

45.



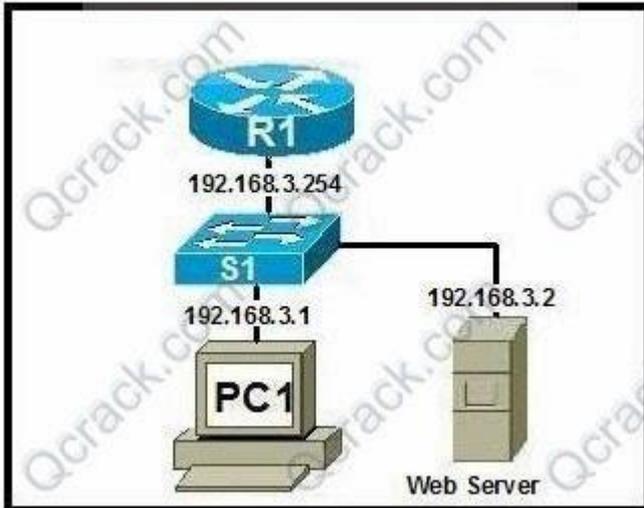
Refer to the exhibit. Which set of devices contains only intermediary devices?

- A, B, D, G
- A, B, E, F
- C, D, G, I
- G, H, I, J

46. While configuring a router, a network technician wants to name the router. Which prompt should the technician see when entering the hostname command?

- Router>
- Router#
- Router(config)#
- Router(config-line)#

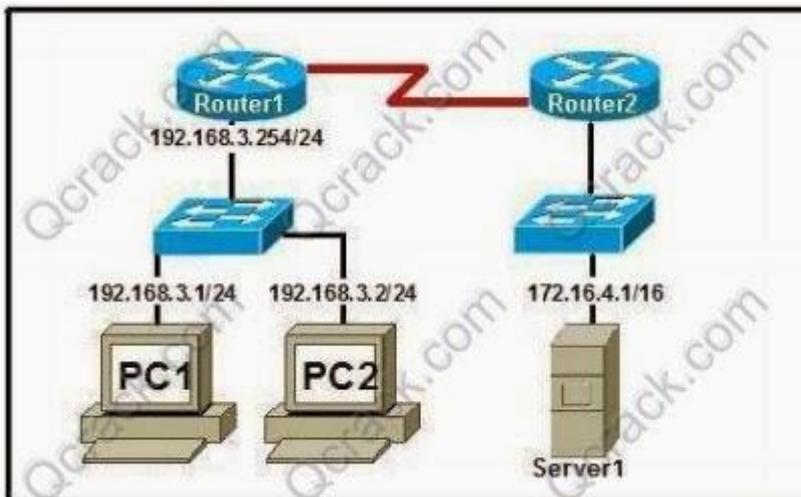
47.



Refer to the exhibit. An administrator on PC1 wants to view some HTML code from a web page housed on the web server. Which client application will allow this request to be started?

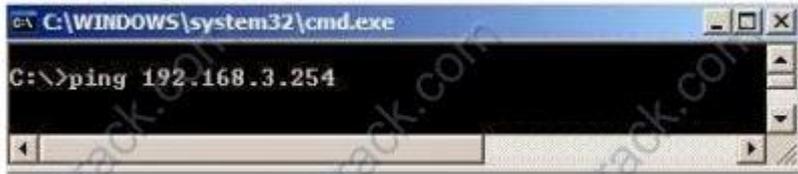


48.

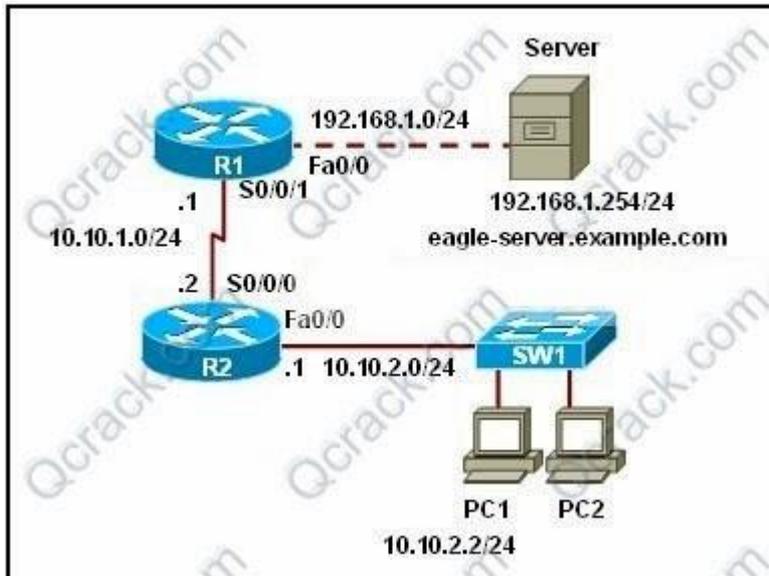


Refer to the exhibit. A technician has been asked to test connectivity from PC1

to a remote network. Which action will indicate if there is remote connectivity?



49.



Refer to the exhibit. A web browser running on host PC1 sends a request for a web page to the web server with an IP address 192.168.1.254/24. What sequence of steps will follow in order to establish the session before data can be exchanged?

The session will be initiated using UDP. No additional acknowledgment will be required to establish the session.

The session will be initiated using TCP. No additional acknowledgment will be required to establish the session.

The session will be initiated using UDP. The returned web page will serve as an acknowledgment for session establishment.

The session will be initiated using TCP. A three-way handshake must be successfully completed before the session is established.

50. Because of a security violation, the router password must be changed. What information can be learned from these configuration entries? (Choose two.)

Router(config)# **line vty 0 4** Router(config-line)# **password arj15** Router(config-

line)# **login**

This configuration allows users to connect by using a modem.

Users must specify which line, 0 or 4, they wish to connect to when making a connection.

This configuration allows users to connect to the router via the use of the telnet command.

This configuration allows five users to make simultaneous connections to this router.

The configured password is automatically encrypted on the router.