

Version 3.1.1 (96% if u follow this answers)

1 Refer to the exhibit. How many broadcast domains are shown?

- Three*****
- fou
- five
- six
- eight
- ten

2 When using Category 5 UTP cable, which RJ-45 pin pairs are used to exchange data between hosts on an Ethernet network?

- 1 and 2; 4 and 5
- 1 and 2; 3 and 6*****
- 3 and 6; 7 and 8
- 4 and 5; 7 and 8

3 Refer to the exhibit. A network administrator has configured a network after subnetting the network number 192.168.0.0/28. Workstation 1 is not able to communicate with Workstation 2. What is the cause of this loss in communications?

- Workstation 1 and Workstation 2 are on the same subnet.
- The serial connections are using addresses from the LAN subnets.
- Workstation 1 is not on the same network that the Router 1 LAN interface is on.*****
- If routers are used in the network, IP addresses do not need to be subnetted.

4 Refer to the exhibit. The hub and the switch are operating using factory default settings. Which hosts will receive the frame if host A transmits a broadcast frame?

- Only workstation B and the router will receive the data.
- Workstations B, C, D, E, and the router will receive the data. *****
- Only workstations connected to the hub will receive the data.
- Workstations B, C, D, E, and the router will receive the data and it will be forwarded into the Internet.

5 Refer to the exhibit. A network associate needs to establish an Ethernet connection between Host A and Host B. However, the distance between the two hosts is further than the cabling standards allow. Which two devices that operate at the physical layer of the OSI can be used to allow Host A and Host B to communicate? (Choose two.)

- switch
- hub*****
- bridge
- router
- repeater*****

6 Refer to the exhibit. A network technician is trying to determine the correct IP address configuration for Host A. What is a valid configuration for Host A?

- IP address: 192.168.100.19; Subnet Mask: 255.255.255.248; Default Gateway: 192.16.1.2
- IP address: 192.168.100.20; Subnet Mask: 255.255.255.240; Default Gateway: 192.168.100.17*****
- IP address: 192.168.100.21; Subnet Mask: 255.255.255.248; Default Gateway: 192.168.100.18
- IP address: 192.168.100.22; Subnet Mask: 255.255.255.240; Default Gateway: 10.1.1.5
- IP address: 192.168.100.30; Subnet Mask: 255.255.255.240; Default Gateway: 192.168.1.1

IP address: 192.168.100.31; Subnet Mask: 255.255.255.240; Default Gateway: 192.168.100.18

7

Which devices will create multiple collision domains in an Ethernet network? (Choose two.)

NIC

hub

switch*****

router*****

repeater

8 Refer to the exhibit. What is the order of the TCP/IP Protocol Data Units as data is moved as indicated through the OSI model?

bits, segments, frames, packets, data

bits, frames, packets, segments, data*****

bits, frames, segments, packets, data

bits, packets, frames, segments, data

9 Refer to the exhibit. The connections in the exhibit are labeled A through E. Which of these indicate LAN links? (Choose two.)

link A*****

link B

link C

link D

link E*****

10 Refer to the exhibit. Which type of UTP cable should be used to connect Host A to Switch1?

rollover

console

crossover

straight-through*****

11 A wireless workstation must scan to find an available access point. What are two characteristics of a wireless workstation in passive scanning mode? (Choose two.)

The wireless node sends a probe request with the SSID of the network. The access point must send back a probe response to complete the authentication and association process.

The wireless node listens for beacons from an access point advertising an SSID and then attempts to join the network. *****

The wireless node may associate or disassociate with access points as signal strength changes.

The wireless node listens for a beacon from an access point with the same WEP key and is allowed to authenticate to the WLAN.*****

The wireless node broadcasts multiple probe requests to all available access points. The access point with the strongest signal responds with a probe reply and authentication to the WLAN is complete.

12 Based on the graphic above, which of the following occurs as each host system comes on line in the topology?

The switch sends its MAC address to each host.

The switch adds MAC address to the bridge table as each host sends a frame. *****

Each host exchanges MAC addresses with each other.

The switch listens for data traffic to block since the switch lacks an IP address.

13 How does a switch learn the addresses of hosts connected to its ports?

All source MAC addresses must be manually configured in CAM.

The switch reads the source MAC address on incoming frames and records it in CAM. *****

The switch reads the destination MAC address on incoming frames and records it in CAM.

If a switch port is full duplex, the switch reads both the source and destination MAC addresses on incoming frames and records them in CAM.

14 Refer to the exhibit. Which diagram represents the network topology that an administrator would prefer, and why would the administrator prefer it?

Diagram A. It provides the hosts with full-duplex connections.

Diagram A. It will better provide available bandwidth to the hosts.*****

Diagram B. It extends the collision domain.

Diagram B. It prevents the frames from looping.

Either network will perform equally well.

15 After an unsuccessful ping to the local router, the technician decides to investigate the router. The technician observes that the lights and fan on the router are not operational. In which layer of the OSI model is the problem most likely occurring?

transport

network

data link

physical*****

16 A user initiates three simultaneous FTP connections from the local host to the same FTP server. Which OSI layer is responsible for establishing and managing these different FTP connections?

application

session*****

transport

network

data link

17 Which technologies are considered to be LAN technologies? (Choose two.)

DSL

Token Ring*****

Frame Relay

ISDN

Ethernet*****

18

A router interface has been assigned an IP address of 172.16.192.166 with a mask of 255.255.255.248. To which subnet does the IP address belong?

172.16.0.0

172.16.192.0

172.16.192.128

172.16.192.160*****

172.16.192.168
172.16.192.176

19

What is the correct number of usable subnetworks and hosts for the IP network address 192.168.35.0 subnetted with a /28 mask?

6 networks / 64 hosts

14 networks / 32 hosts

14 networks / 14 hosts*****

30 networks / 64 hosts

20 In the exhibit, the connections between the devices are labeled A, B, C, D, and E. For each connection, what is the correct UTP cable to use?

A=straight, B=rollover, C=straight, D=crossover, E=crossover

A=rollover, B=crossover, C=crossover, D=straight, E=straight

A=rollover, B=straight, C=straight, D=crossover, E=straight

A=rollover, B=straight, C=straight, D=crossover, E=crossover*****

A=straight, B=crossover, C=rollover, D=straight, E=straight

21 A network administrator has added a new switch to the network. The new switch connects to an existing switch that is already installed. Which UTP cable correctly connects the new switch to the existing switch?

crossover*****

rollover

straight-through

console

22 How many collision domains are shown in the diagram?

three

four

five

six*****

seven

eight

23 Refer to the exhibit. What must be configured on Host B to allow it to communicate with the file server? (Choose three.)

the MAC address of the file server

the MAC address of the PADI router interface connected to Switch A

the IP address of Switch A

a unique host IP address*****

the subnet mask for the LAN*****

the default gateway address*****

24 Refer to the exhibit. Host A pings Host B. What can be concluded about the source and destination addresses contained in the communication sent by Router R5 when it forwards the ping out the Ethernet interface to Host B? (Choose two.)

source IP address: 192.168.10.129
source MAC address: BBBB.3333.5677
source MAC address: 5555.AAAA.6666*****
destination IP address: 192.168.10.33
destination IP address: 192.168.10.134*****
destination MAC address: 9999.DADC.1234

25
What is the decimal representation of the binary number 11111000?

224
240
248*****
252
254

26 A large company has a network that is constantly changing. The routing tables in the routers need to be adjusted to reflect the changes in the routing paths. What type of routing would the network administrator implement?

static routes
dynamic routing protocols*****
only default routes
none. No routing is necessary.

27 Which network device creates the highest amount of latency?

hub
router*****
switch
bridge

28 Why do vendors utilize the OSI model when designing networking products?

It places requirements on all vendors that develop proprietary networking technologies for advance networking systems.
It ensures greater compatibility and interoperability with equipment from different vendors. *****
The International Organization for Standards develops all new products to be incorporated into the product.
It is mandated by the International Organization for Standardization that network products be compliant with the OSI model.

29 Which type of address is 192.168.170.112/28?

host address
subnetwork address*****
broadcast address
multicast address

30

A router determines the path to deliver a packet. What layer of the OSI model does this fact represent?

- session
- transport
- network*****
- data link
- physical

31 What are important characteristics to consider when purchasing a network interface card? (Choose two.)

- security used on the network
- media used on the network*****
- system bus used on the computer*****
- software installed on the network
- diagnostic tools installed on the network

32 Which subnet masks could be used when subnetting a Class B IP address? (Choose two.)

- 255.255.255.240*****
- 255.255.192.0*****
- 255.255.0.0
- 255.192.0.0
- 240.0.0.0
- 255.0.0.0

33 Refer to the exhibit. The network administrator wants to create a subnet for the point-to-point connection between the two routers. Which subnetwork mask would provide enough addresses for the point-to-point link with the least number of wasted addresses?

- 255.255.255.192
- 255.255.255.224
- 255.255.255.240
- 255.255.255.248
- 255.255.255.252*****

34 Which characteristics are common to both UDP and TCP? (Choose two.)

- provides windowing
- provides reliability
- uses port numbers*****
- acknowledges receipt of data
- classified as a connectionless protocol
- classified as a transport layer protocol*****

35 Refer to the diagram. Which statements describe the transfer of data between Host A and the HTTP server? (Choose three.)

Host A uses UDP and creates a three-way handshake to synchronize sequence numbers. Window sizes are the same at the source and destination. The number of acknowledgments sent is less than or equal to the number of data segments received. *****

Host A uses TCP and creates a three-way handshake to synchronize sequence numbers. Window sizes are the same at the source and destination. The number of acknowledgments sent are less than or equal to the number of data segments received.

Host A uses TCP and creates segments of data. Source port numbers are assigned dynamically and the destination port number will be fixed to 80.

Host A uses TCP and creates segments of data. Destination port numbers are assigned dynamically and the source port number will be fixed to 80. *****

The transport layer is responsible for information flow control as well as establishing, maintaining, and terminating virtual connections between the client and server. *****

Host A uses UDP and creates segments of data. Source port numbers are assigned dynamically and the destination port number will be fixed to 80.

36 Two peer hosts are exchanging data using TFTP. During the current session, a Cisco device fails to arrive at the destination. Which statement is true regarding the retransmission of the Cisco device?

Cisco device retransmission requires user authentication.

Cisco device retransmission is controlled by the application. *****

Cisco device retransmission relies on the acknowledgments at transport layer.

Cisco device retransmission occurs when the retransmission timer expires in the source host.

37 Which protocols are TCP/IP application layer protocols? (Choose two.)

TFTP*****

IP

TCP

UDP

DNS*****

38 Which of the following statements are correct about CSMA/CD? (Choose three.)

It is a media access method used in LANs. *****

It is a media access method used in FDDI WANs.

When a device needs to transmit, it checks to see if the media is available. *****

A device sends data without checking media availability because all devices have equal access.

Multiple devices can successfully transmit simultaneously.

Only one device can successfully transmit at a time. *****

39 Consider the networks shown in the exhibit. Host A is sending packets to host B. Which layer of the OSI model is being used when the router is making the calculated decision to determine which interface to send the packet out?

physical

data link

network*****

transport

session

presentation

40 An Ethernet host receives a frame, calculates the FCS, and compares the calculated FCS to the FCS received in the frame. The host finds that the two FCS values do not match. What action will be taken by the host?

- The host discards the frame. *****
 - The host processes the data frame normally.
 - The host initiates a request for retransmission of the frame.
 - The host sends the frame content to an upper layer protocol for error recovery.
- *****

41 A computer technician is asked to make a network cable. One end of the cable is pinned as a 568A and the other as a 568B. For what purposes can this cable be used? (Choose two.)

- to connect a router to a switch
 - to connect a switch to a switch *****
 - to connect a host to a switch
 - to connect a hub to a switch *****
 - to connect a router to a hub
 - to connect a host to a hub
- *****

42 Why would a company install a switch instead of a hub when building or expanding a corporate network?

- A switch manages frames faster than a hub does.
 - A switch operates at 100 Mbps. A hub operates at a maximum of 10 Mbps.
 - A switch modifies the Ethernet frame to remove any errors. A hub forwards the frame exactly as it arrived.
 - A switch provides more bandwidth by sending frames only out the port to which the destination device is attached. A hub sends the frame out all ports except the source port. *****
- *****

43 Refer to the exhibit. A newly hired technician has a task of terminating CAT 5 UTP cables. The network administrator visually examined the cables the technician terminated. Some of the cables have connectors as shown in the exhibit. What should the network administrator explain to the technician about the cables?

- Both cables are acceptable.
 - The cable in Graphic A will produce more crosstalk. *****
 - The cable in Graphic A should be used in the more critical network segments.
 - The cable in Graphic A is preferred because it will be easier to crimp the connector.
- *****

44 Refer to the topology in the graphic. Which characteristic does this type of topology possess?

- As one router malfunctions, the entire communication goes down.
 - All the devices on the network are connected to a common cable.
 - As two routers malfunction, the entire communication goes down.
 - Communication continues in the event of a break in any one connection. *****
- *****

45 Refer to the exhibit. What kind of Ethernet cable is represented?

- rollover cable
 - straight-through cable *****
 - crossover cable
 - console cable
- *****

46 Which cable diagram displays the end to end pinout for a crossover cable used with Cisco devices?

- Cable A
 - Cable B
 - Cable C *****
 - Cable D
- *****

47 Refer to the exhibit. Workstation 1 pings the Fa0/1 interface of Router 1. Which MAC address will workstation 1 obtain during the ARP request for this communication?

- 00-06-5B-88-DF-C3
- 00-B0-D0-7F-F7-46
- 00-0F-24-85-75-C0
- 00-0B-E5-64-BD-44
- 00-08-A3-B6-CE-02*****
- 00-08-A3-B6-CE-03
- *****

48 A technician is testing connectivity between the devices using the ping command. Pings between Host B and Host A were successful. The technician could not ping the R3 address 172.16.3.2 from Host A. The technician issued ipconfig from Host A and saw the information displayed in the exhibit. What is the most likely problem?

- The IP address of Host A is incorrect.
- The subnet mask of Host A is incorrect.
- The default gateway of Host A is incorrect. *****
- Host A is properly configured. Some other problem exists in the internetwork.
- *****

49 Refer to the exhibit. The physical documentation shows a portion of the internetwork of the ABC Company. Which segments will be free of collisions?

- segments 1 and 2
- segments 1, 2, and 3
- segments 1, 2, 3, 4, and 5
- segments 2 and 3
- segments 3, 4, and 5*****
- segments 4, and 5
- *****

50 The ping command can be used to test connectivity between hosts. Which OSI model layers are verified by this test?

- Layers 1 and 2 only
- Layers 1 and 3 only
- Layers 1, 2 and 3*****
- Layer 1 through Layer 7
- Layer 4 through Layer 7
- *****

51 Which physical network topology is easy to monitor and troubleshoot, easy to add new devices to as the network expands, but subject to complete failure when a central hub or switch ceases to work?

- bus
- star*****
- ring
- mesh
- *****

52 A network administrator has installed a 24 port switch and connected 10 computers with 10/100 NICs. If the NICs are operating at 100 Mbps, how much bandwidth is available for each computer to receive data?

- 0.24 Mbps
- 4.17 Mbps
- 10 Mbps
- 24 Mbps
- 100 Mbps*****
- 200 Mbps

Version 3.1 (92.2% if u follow this answer:Trust me u have to make same mistake if want 92.2%)

1.
Which cable diagram displays the end to end pinout for a console cable used with Cisco devices?

- Cable A
- *Cable B
- Cable C
- Cable D

2. How many broadcast domains are shown in the diagram?

- *three
- four
- five
- six
- seven
- eight

3. Refer to the exhibit. What device does Device X represent in the graphic to allow PC1 to ping PC4?

- hub
- *router
- bridge
- access point
- Layer 2 switch

4. Refer to the exhibit. How many collision domains are present in the topology?

- 3
- 5
- *6
- 7
- 8
- 9

5 What can be verified by successfully pinging the reserved loopback address on a host?

- Connectivity exists between two hosts on the LAN.
- *The TCP/IP stack of the local host is installed correctly.
- A connection exists between a host and the default gateway.
- The route a packet takes from the local host to a remote host is valid.

6 When using Category 5 UTP cable, which RJ-45 pin pairs are used to exchange data between hosts on an Ethernet network?

- 1 and 2; 4 and 5
- *1 and 2; 3 and 6
- 3 and 6; 7 and 8
- 4 and 5; 7 and 8

7 A collision has occurred on an Ethernet network. Which three statements explain the CSMA/CD process? (Choose three.)

- *After the jam signal, all transmission stops for a random period.
- When the collision is detected, the hosts stop transmission immediately.
- When the collision is detected, the hosts stop transmission after eight microseconds.
- When the backoff period expires, the hosts involved in the collision have priority to transmit.
- *When the backoff period expires, each host checks to see whether the networking media is idle and then attempts to transmit.
- *When the collision is detected, the hosts continue to transmit using a jam pattern for a short time to ensure that all hosts detect the collision.

8.A workstation is browsing a web server. What will be the partial contents of the segment sent from the workstation to the web server?

source port 1026, destination port 80, sequence number 1, ack number 0*

9 Which protocols are TCP/IP application layer protocols? (Choose two.)

- UDP
- *FTP
- IP
- *SMTP
- TCP

10 A company has the following addressing scheme requirements:

- currently has 25 subnets
- uses a Class B IP address
- has a maximum of 300 computers on any network segment
- needs to leave the fewest unused addresses in each subnet

What subnet mask is appropriate to use in this company?

- 255.255.240.0
- 255.255.248.0
- *255.255.254.0
- 255.255.255.0
- 255.255.255.128
- 255.255.255.248

11. Refer to the exhibit. Host A has been added to the network. However, host A cannot communicate with the server B or the Internet. All cables have been tested and are functioning to standards. At which layer of the OSI model is this problem occurring?

- Layer 1
- Layer 2
- *Layer 3
- Layer 4

12 Refer to the exhibit. Workstation 1 pings the Fa0/1 interface of Router 1. Which MAC address will workstation 1 obtain during the ARP request for this communication?

00-06-5B-88-DF-C3
00-B0-D0-7F-F7-46
00-0F-24-85-75-C0
00-0B-E5-64-BD-44
00-08-A3-B6-CE-02
*00-08-A3-B6-CE-03

13 When the receiving workstation detects an error in the data it has received, it does not acknowledge receipt of the data. The source workstation retransmits the unacknowledged data. Which layer of the OSI model supports this process of retransmission?

network
application
session
*transport

14 Which subnet masks would be valid for a subnetted Class B address? (Choose two.)

255.0.0.0
255.254.0.0
255.224.0.0
255.255.0.0
*255.255.252.0
*255.255.255.192

15 A network user is using the FTP protocol to transfer data from the local host to an FTP server. The local host is also using the SNMP protocol to report the system status to the network management system. Which statement describes the communication from the host?

FTP and SNMP will use the same port number.
*FTP uses TCP to establish a session before any data is transferred.
The UDP session will reorder the SNMP data as it is received by the network management system.
The TCP protocol for the FTP transfer will use a random destination port number to the FTP server.

16.A NIC of a computer has been assigned an IP address of 172.31.192.166 with a mask of 255.255.255.248. To which subnet does the IP address belong?

172.31.0.0
172.31.160.0
172.31.192.0
172.31.248.0
*172.31.192.160
172.31.192.248

17 Which devices segment collision domains? (Choose two.)

transceiver
*router
*switch
hub
media

18 Refer to the exhibit. Which type of Category 5 cable is used to make an Ethernet connection between Host A and Host B?

coax cable
rollover cable
*crossover cable
straight-through cable

19 Refer to the exhibit. In an attempt to use a uniform subnet mask, the administrator selects the mask 255.255.255.240 for the exhibited networks. What is a possible problem with this addressing scheme?

- There will not be enough subnets to be able to address the serial links between the routers.
- There will too few addresses for the hosts on any of the Ethernet networks.
- Too many addresses will be reserved for hosts on the Ethernet networks.
- There will be too few addresses for the hosts on Net A and Net B.
- There will be too many addresses for the hosts on Net C.

This question(no 19) don't have in my final exam because its only 49 question.this 3.1 have 52 question.

20. Refer to the exhibit. What must be configured on Host B to allow it to communicate with the Host C? (Choose three.)

- the MAC address of RTA router interface connected to Switch 1
- *a unique host IP address
- the IP address of Switch 1
- *the default gateway address
- the MAC address of Host C
- *the subnet mask for the LAN

21. Refer to the exhibit. The connections in the exhibit are labeled A through E. Which of these indicate WAN links? (Choose three.)

- link A
- *link B
- *link C
- *link D
- link E

22 Refer to the exhibit. Which type of UTP cable should be used to connect Switch1 to Switch2?

- rollover
- console
- *crossover
- straight-through

23/A user initiates three simultaneous FTP connections from the local host to the same FTP server. Which OSI layer is responsible for establishing and managing these different FTP connections?

- application
- *session
- transport
- network
- data link

24. Which layer of the OSI model defines the process of adding the source and destination IP address to a data

packet?

transport
*network
data link
physical

25. Refer to the exhibit. What is the purpose of the highlighted address?

*It allows the NIC to communicate with other devices on the same network.

It identifies which part of the IP address is to be considered the network portion.

It provides an address to which all packets that do not have a specific route are sent.

It uniquely identifies the NIC to the free token that is passed on the Ethernet network.

26. What is the correct number of usable subnetworks and hosts for the IP network address 192.168.99.0 subnetted with a /29 mask?

6 networks / 32 hosts

14 networks / 14 hosts

*30 networks / 6 hosts

62 networks / 2 hosts

27. Refer to the exhibit. Which type of cabling should be used at each of the connection points shown?

A-crossover

B- straight-through

C-straight-through

D-fiber

E-straight-through

A-crossover

B-crossover

C-straight-through

D-fiber

E-crossover

*A-straight-through

B-crossover

C-straight-through

D-fiber

E-straight-through

A-fiber

B-crossover

C-straight-through

D-crossover

E-straight-through

A-straight-through

B-crossover

C-crossover

D-fiber

E-straight-through

- A-crossover
- B-crossover
- C-straight-through
- D-fiber
- E-straight-through

28. Which combination of network id and subnet mask correctly identifies all IP addresses from 172.16.128.0 through 172.16.159.255?

- 172.16.128.0 255.255.255.224
- 172.16.128.0 255.255.0.0
- 172.16.128.0 255.255.192.0
- *172.16.128.0 255.255.224.0
- 172.16.128.0 255.255.255.192

29. Which binary number is a representation of the decimal number 248?

- 11101000
- 11110100
- *11111000
- 11111010

30. What are three characteristics of the TCP protocol? (Choose three.)

- exchanges datagrams unreliably
- is used to send IP error messages
- *forces the retransmission of unacknowledged packets
- *creates a virtual session between end-user applications
- carries the IP address of the destination host in the TCP header
- *is responsible for breaking messages into segments and reassembling them at their destination

31. Refer to the exhibit. A company needs to attach workstation E at a point 150 meters from an existing hub. What device should be placed at location D to allow the new host to connect to the network with the least amount of latency?

- router
- switch
- bridge
- *repeater

32. Refer to the exhibit. An instructor in the network class has given the students the network diagram and asks the students to select the appropriate network devices. The goals are to provide a collision-free LAN environment and to provide Internet connectivity. What is the correct design?

- Replace Box 1 with a hub and Box 2 with a router.
- Replace Box 1 with a router and Box 2 with a bridge.
- *Replace Box 1 with a Layer 2 switch and Box 2 with a router.
- Replace Box 1 with a router and Box 2 with a Layer 2 switch.
- Replace Box 1 with a bridge and Box 2 with a Layer 2 switch.

33. A simplified CAM table for Switch1 is shown in the exhibit. If host A sends a frame with a destination MAC address of 66C, how does the switch process this frame?

The switch drops the frame.

The switch sends the frame out port 3.

The switch sends the frame out ports 1, 2, and 4.

*The switch sends the frame out ports 2, 3, and 4.

The switch sends the frame out ports 1, 2, 3, and

34. Refer to the exhibit. A newly hired technician has a task of terminating CAT 5 UTP cables. The network administrator visually examined the cables the technician terminated. Some of the cables have connectors as shown in the exhibit. What should the network administrator explain to the technician about the cables?

Both cables are acceptable.

*The cable in Graphic A will produce more crosstalk.

The cable in Graphic A should be used in the more critical network segments.

The cable in Graphic A is preferred because it will be easier to crimp the connector.

35 Which of the following increases the potential for a collision to occur?

the use of an active hub instead of an intelligent hub

the use of an intelligent hub instead of an active hub

a reduction in the number of devices attached to the hub

* an increase in the number of devices attached to the hub

36. Which type of address is 223.168.17.167/29?

host address

multicast address

broadcast address

*subnetwork address

37. Refer to the exhibit. The internetwork in the exhibit has been assigned the IP address 172.20.0.0. What would be the appropriate subnet mask to maximize the number of networks available for future growth?

*255.255.224.0

255.255.240.0

255.255.248.0

255.255.252.0

255.255.254.0

255.255.255.0

38 Workstation A sends data to workstation B. What will have to be altered as the data passes through the router? (Choose two.)

*Layer 1 bit pattern

*Layer 2 frames

Layer 3 packets

Layer 4 segments

Layer 5 -7 data

39 What should a network administrator consider when migrating to Gigabit Ethernet architecture from Fast Ethernet? (Choose three.)

- *Existing NICs might need to be upgraded.
 - *Existing switches might need to be upgraded.
 - Existing NICs must support half-duplex mode.
 - Existing UTP wiring must be replaced with fiber.
 - *Existing UTP must be tested for CAT 5e compatibility.
 - Existing network topology must support shared media.
- *****

40 What type of routing is it when the network administrator manually configures a route?

- *static
 - dynamic
 - interior
 - exterior
- *****

41. Refer to the exhibit. A network administrator attempts to increase the available bandwidth for workstation A by setting the NIC to full-duplex mode. After the configuration is changed, there are increased collisions and errors occurring. Why is this occurring in the network?

- The NIC is no longer detecting collisions.
 - The switch will not support full-duplex mode.
 - *The hub will be continually producing a jam signal.
 - The cabling will not support bidirectional transmissions.
- *****

42. Refer to the received frame in the exhibit. In what two ways is the information from the received frame used by a switch? (Choose two.)

- 192.168.10.5 is used to create an ARP request.
 - 192.168.10.5 is used to build the forwarding table.
 - 1234.5678.1abc is stripped from the frame header.
 - *192.168.10.11 is left intact as the frame is forwarded.
 - The switch compares 192.168.10.11 to the addresses in the routing table to make the forwarding decision.
 - *To make the forwarding decision, the switch looks in its switch table for address aaaa.bbbb.cccc.
- *****

43. An IT administrator desires to install a Gigabit Ethernet link between the two buildings shown in the exhibit. Conflicting suggestions have been given to the administrator from a variety of sources. Which suggestion should the administrator adopt to ensure the success of this project?

- A single-mode optical fiber cable can support Gigabit Ethernet over the 900 meter distance.
- *A combination of UTP, repeaters, and multimode optical fiber will reach 900 meters with Gigabit Ethernet.
- Ethernet cannot be used over these distances and another technology such as ATM should be used.
- The best that can be done over a 900 meter run is full-duplex Ethernet over UTP cable operating at 100 Mbps.
- UTP can be used, but for Gigabit Ethernet over a 900 meter distance, the cable must be Category 5e cable .

(this question (no 43) also not have in my final exam

44. Refer to the exhibit. What is the order of the TCP/IP Protocol Data Units as data is moved as indicated through the OSI model?

data, segments, frames, packets, bits
data, packets, segments, frames, bits
*data, segments, packets, frames, bits
data, packets, frames, segments, bits

45 Which technologies are considered to be WAN technologies? (Choose two.)

Ethernet
*DSL
Token Ring
*Frame Relay
FDDI

46 Which statement describes a star topology?

Each host in the network is connected to a backbone cable that is terminated at both ends.
*Each host is connected to a hub or switch, either of which acts as a central point for all network connections.
Each host is directly connected to two other hosts to form a long chain of hosts.
Each host has a connection to all other hosts in the network.

47. Refer to the exhibit. A network administrator is testing a connectivity issue in the network. The administrator discovers that host A cannot communicate with host B, host C, or RouterA. A ping command on host A to 127.0.0.1 succeeds. The NIC link indicator on host A is illuminated. Temporarily, the administrator removes the cable from host A and uses the LAN cable from host B to connect from host A to port 1 on the switch. While using the substitute cable, host A can communicate with host C and RouterA. At which layer of the OSI model was the problem occurring?

session
transport
network
data link
*physical

48. Refer to the exhibit. What type of cable connects the two routers together without any intermediary device?

console
rollover
*crossover
straight-through

49 Refer to the exhibit. What is an advantage of using this type of topology?

This type of network has redundancy.
No collisions occur on this type of network.
*Network communication continues in the event of a break.
A central device on the network controls communication on this type of network.

(this question NO(49) also don't have

50. Refer to the exhibit. Host A is being manually configured for connectivity to the LAN. Which two addressing scheme combinations are possible configurations that can be applied to the host for connectivity? (Choose two.)
*Address - 192.168.1.82 Gateway - 192.168.1.65
*Address - 192.168.1.70 Gateway - 192.168.1.65

51. Which of the following devices extend a collision domain? (Choose two.)

*hub

*repeater

52. A technician needs to connect a FastEthernet port from a router to a FastEthernet port on a switch. The graphic shows the RJ-45 cable ends for a patch cable. What result can be expected if this cable is used for the link?

*The cable will be able to pass traffic between the devices.