Question **1**

Complete

Mark 0.00 out of 1.00

Flag question

Question text

Which two statements describe the IP address 10.16.3.65/22?

1. The subnet address is 10.16.0.0 255.255.252.0.

2. The lowest host address in the subnet is 10.16.2.1 255.255.254.0.

3. The last valid host address in the subnet is 10.16.2.254 255.255.252.0.

4. The broadcast address of the subnet is 10.16.3.255 255.255.254.0

Select one:

a. 2 and 4

b. 2, 3 and 4

c. 1, 2 and 4

d. 1 and 3

Feedback

The correct answer is: 1 and 3

Question **2**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

If an Ethernet port on a router were assigned an IP address of 172.16.112.1/16, what would be the valid subnet address of this host?

Select one:

a. 172.16.112.0

b. 172.16.0.0

c. 172.16.96.0

d. 172.16.255.0

Feedback

The correct answer is: 172.16.0.0

Question **3**

Complete

Mark 0.00 out of 1.00

Flag question

Question text

If you wanted to have 20 subnets with a Class C network ID, which subnet mask would you use?

Select one:

a. 255.255.255.255

b. 255.255.255.240

c. 255.255.255.252

d. 255.255.255.248

Feedback

The correct answer is: 255.255.255.248

Question **4**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

The network address of 172.16.0.0/20 provides how many subnets and hosts?

Select one:

a. 8 subnets, 8,190 hosts each

b. 7 subnets, 30 hosts each

c. 16 subnets, 4,094 hosts each

d. 32 subnets, 2,046 hosts each

Feedback

The correct answer is: 16 subnets, 4,094 hosts each

Question **5**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

What is the subnetwork number of a host with an IP address of 11.75.99.1/10?

Select one:

a. 11.0.0.0/10

b. 11. 64.0.0/10

c. 11.75.99.0/10

d. 11.75.0.0/10

Feedback

The correct answer is: 11. 64.0.0/10

Question **6**

Complete

Mark 0.00 out of 1.00

Flag question

Question text

Which of the following is private IP address?

Select one:

a. 12.0.0.1

b. 192.16.24.43

c. 172.16.14.36

d. 168.172.19.39

Feedback

The correct answer is: 172.16.14.36

Question **7**

Complete

Mark 0.00 out of 1.00

Flag question

Question text

Which of the following is the broadcast address for a Class B network ID using the default subnetmask?

Select one:

a. 172.16.255.255

b. 172.16.10.255

c. 172.255.255.255

d. 255.255.255.255

Feedback

The correct answer is: 172.16.255.255

Question **8**

Complete

Mark 0.00 out of 1.00

Flag question

Question text

You have a network that needs 35 subnets while maximizing the number of host addresses available on each subnet. How many bits must you borrow from the host field to provide the correct subnet mask?

Select one:

a. 7

b. 6

c. 3

d. 2

Feedback

The correct answer is: 6

Question **9**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

You have a network with a subnet of 172.16.17.0/22. Which is the valid host address?

Select one:

a. 172.16.17.1 255.255.252.0

b. 172.16.0.1 255.255.240.0

c. 172.16.18.255 255.255.255.252

d. 172.16.20.1 255.255.254.0

Feedback

The correct answer is: 172.16.17.1 255.255.252.0

Question **10**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

You have an interface on a router with the IP address of 192.168.192.10/28. Including the router interface, how many hosts can have IP addresses on the LAN attached to the router interface?

Select one:

a. 14

b. 32

c. 8

d. 6

Feedback

The correct answer is: 14

Question **11**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

You have an interface on a router with the IP address of 192.168.192.26/29. What is the broadcast address the hosts will use on this LAN?

Select one:

a. 192.168.192.31

b. 192.168.192.127

c. 192.168.192.63

d. 192.168.192.15

Feedback

The correct answer is: 192.168.192.31

Question **12**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

You have an IP address of 172.16.13.5 with a 255.255.255.0 subnet mask. What is your class of address, subnet address, and broadcast address?

Select one:

a. Class B, Subnet 172.16.0.0, Broadcast address 172.16.255.255

b. Class B, Subnet 172.16.13.0, Broadcast address 172.16.13.255

c. Class B, Subnet 172.16.13.0, Broadcast address 172.16.13.127

d. Class A, Subnet 172.16.13.0, Broadcast address 172.16.13.127

Feedback

The correct answer is: Class B, Subnet 172.16.13.0, Broadcast address 172.16.13.255

Question **13**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

You need to configure a server that is on the subnet 192.168.19.16/29. The router has the first available host address. Which of the following should you assign to the server?

Select one:

a. 192.168.19.25 255.255.255.240

b. 192.168.19.26 255.255.255.248

c. 192.168.19.33 255.255.255.248

d. 192.168.19.18 255.255.255.248

Feedback

The correct answer is: 192.168.19.18 255.255.255.248

Question **14**

Complete

Mark 0.00 out of 1.00

Flag question

Question text

You need to subnet a network that has 12 subnets, each with at least 16 hosts. Which classful subnet mask would you use

Select one:

a. 255.255.255.240

b. 255.255.255.248

c. 255.255.255.192

d. 255.255.255.224

Feedback

The correct answer is: 255.255.255.240

Question **15**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

Your router has the following IP address on Ethernet0: 172.16.2.1/24. Which of the following can be valid host IDs on the LAN interface attached to the router?

1. 172.16.1.100

2. 172.16.1.198

3. 172.16.2.254

4. 172.16.3.0

Select one:

a. 3 and 4 only

b. 3 only

c. None of the mentioned

d. 1 and 3 only

Feedback

The correct answer is: 3 only

Question **16**

Complete

Mark 0.00 out of 1.00

Flag question

Question text

Which of the following are true regarding the distance-vector and link-state routing protocols?

1.Link state sends updates containing the state of its own links to all routers in the internetwork.

2.Distance vector sends its own links out all active interfaces on periodic time intervals.

3.Link state sends its complete routing table out all active interfaces on periodic time intervals.

4.Distance vector sends updates containing the state of its own links to all routers in the internetwork.

Select one:

a. 1 only

b. 3 only

c. None of the above

d. 2 and 3 only

Feedback

The correct answer is: 1 only

Question **17**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

Which two statements describe the IP address 10.16.3.65/22?

1. The subnet address is 10.16.0.0 255.255.252.0.

2. The lowest host address in the subnet is 10.16.2.1 255.255.254.0.

3. The last valid host address in the subnet is 10.16.2.254 255.255.252.0.

4. The broadcast address of the subnet is 10.16.3.255 255.255.254.0.

Select one:

a. 1, 2 and 4

b. 1 and 3

c.  2, 3 and 4

d. 1 and 4

Feedback

The correct answer is: 1 and 3

Question **18**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

4. Which layer links the network support layers and user support layers

Select one:

a. transport layer

b. session layer

c. network layer

d. data link layer

Feedback

The correct answer is: transport layer

Question **19**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

7. Which layer is responsible for process to process delivery?

Select one:

a. session layer

b. transport layer

c. data link layer

d. network layer

Feedback

The correct answer is: transport layer

Question **20**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

A \_\_\_\_\_\_\_\_\_\_ is a device that forwards packets between networks by processing the routing information included in the packet.

Select one:

a. firewall

b. router

c. bridge

d. all of the mentioned answers.

Feedback

The correct answer is: router

Question **21**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

An endpoint of an inter-process communication flow across a computer network is called

Select one:

a. port

b. none of the mentioned.

c. pipe

d. socket

Feedback

The correct answer is: socket

Question **22**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

The field used to detect errors over the entire user datagram is

Select one:

a. Destination port

b. Source port

c. Checksum

d. UDP header

Feedback

The correct answer is: Checksum

Question **23**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

The value of acknowledgement field in a segment defines

Select one:

a. Number of next bytes to receive

b. Total number of bytes to receive

c. Number of previous bytes to receive

Feedback

The correct answer is: Number of next bytes to receive

Question **24**

Complete

Mark 0.00 out of 1.00

Flag question

Question text

Total length field in UDP packet header is the length of

Select one:

a. Only data

b. Only checksum

c. Only UDP header

d. UDP header plus data

Feedback

The correct answer is: UDP header plus data

Question **25**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

Transport layer is implemented in

Select one:

a. NIC

b. Ethernet

c. None of the mentioned.

d. End system

Feedback

The correct answer is: End system

Question **26**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

Typical HTTP response status types

Select one:

a. 200 OK, 301 Moved Permanently, 400 Bab Request, 404 Not Found, 505 HTTP Version Not Supported.

b. 13 Root DNS server to top level DNS servers to authoritative DNS servers.

c. 1 RTT for hand shake + 1 RTT for web page + 10 RTT for each referenced object.

d. 1 RTT for hand shake + 1 RTT for web page + 20 RTT for each referenced object.

Feedback

The correct answer is: 200 OK, 301 Moved Permanently, 400 Bab Request, 404 Not Found, 505 HTTP Version Not Supported.

Question **27**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

what is the header size of UDP packet?

Select one:

a. 8 bits

b. 8 bytes

c. 124 bytes

d. 16 bytes

Feedback

The correct answer is: 8 bytes

Question **28**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

Which of the following is false with respect to UDP

Select one:

a. Connection-oriented

b. Transport layer protocol

c. Unreliable

d. All of the mentioned answers.

Feedback

The correct answer is: Connection-oriented

Question **29**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

Which one of the following is a transport layer protocol?

Select one:

a. stream control transmission protocol

b. neighbor discovery protocol

c. dynamic host configuration protocol

d. internet control message protocol

Feedback

The correct answer is: stream control transmission protocol

Question **30**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

Which one of the following routing algorithm can be used for network layer design?

Select one:

a. all of the mentioned answers.

b. distance vector routing

c. shortest path algorithm

d. link state routing

Feedback

The correct answer is: all of the mentioned answers.