Question 11

Answer saved

Marked out of 2

Flag question

Match each of the following IP Addresses with their corresponding classes?

11110101 10111011 11101011 00001111 — Class D and Class E

10001001 10101011 00001001 11101010 — Class B

11010101 10101011 00001011 01101001 — Class C

00000001 10101011 00001011 11101111 — Class A

Question 12

Answer saved

Marked out of 2

Flag question

What is the size of Network bits & Host bits of Class C of IP address?

Select one:

- a. Network bits 24, Host bits 8
- b. Network bits 16, Host bits 24
- c. Network bits 16, Host bits 16
- d. Network bits 8, Host bits 24

Clear my choice

Match the following OSI layes with their Corresponding Layers names?

Layer 7	Application Layer
Layer 5	Session Layer
Layer 6	Presentation Layer

Question 6

Answer saved

Marked out of 2

Flag question

Which of the following is the subnetwork address if the destination address is 33.30.112.5 and the mask is 255.255.224.0?

- a. 33.30.224.0
- b. 33.30.64.0
- c. 33.30.252.0
- d. 33.30.96.0

Clear my choice

Question 7

Answer saved

Marked out of 2

Flag question

We need to make a subnet network out of 16 class B blocks. The following is the subnet mask used?

11111111.11111111.11100000.00000000

Select one:

- True
- False

Which of the following cables also find application in cable television networks for computer communications.

Select one:

- a. STP
- b. UTP
- c. Optical Fiber
- d. Coaxial

Question 5

Answer saved

Marked out of 2

Flag question

Character count synchronization makes the first field in the frame's header be the length of the frame. The IEEE 802.4 standard uses this approach

Select one:

- True
- False

Question 16

Answer saved

Marked out of 2

Flag question

Which of the following connector is used to connect a four pair twisted pair calble.

Select one:

- a. RJ-45
- b. BNC
- c. RJ-11
- d. SC

Clear my choice

Question 17

Answer saved

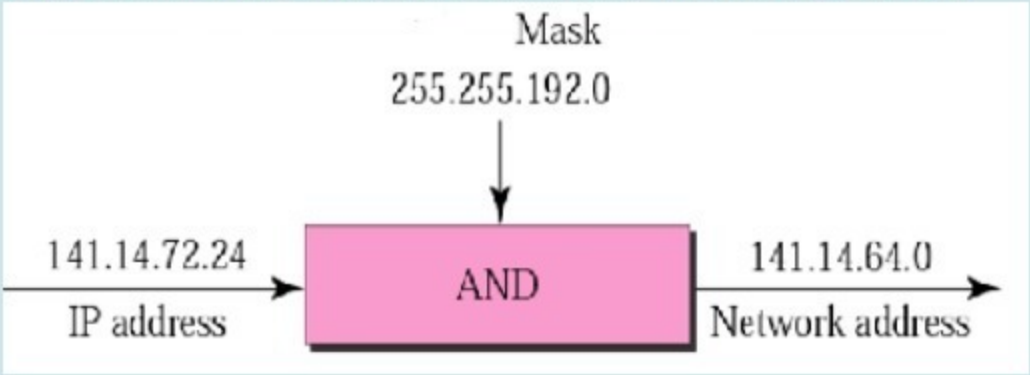
Marked out of 2

Flag question

Match the following IP addresses with corresponding Classes?

233.21.19.77	Class C
122.55.56.91	Class A
206.45.87.3	Class C
153.22.58.0	Class B

The following diagram is host address without subnetting



Select one:

- True
- False

What is the maximum distance between two PCs using twisted pair cable?

Select one:

- a. 500 meter
- b. 100 meter
- c. 200 meter
- d. 300 meter

Clear my choice

Question 3

Answer saved

Marked out of 2

Flag question

Which of the following network devices used to connect LAN to WAN and LAN to LAN in different topology?

Select one:

- a. Switch Device
- b. HUB Device
- c. Router Device
- d. Modem Device

Clear my choice

Question 4

Answer saved

Marked out of 2

Flag question

Link State Routing locally compute the shortest path to every other router (select the best path according to short distance)

Select one:

- True
- False

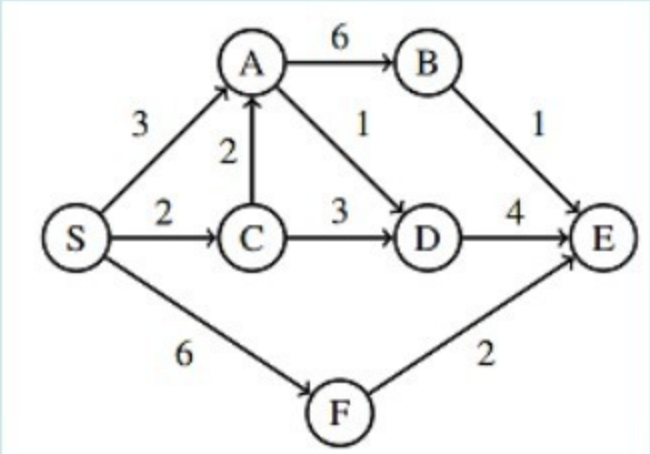
Question 23

Answer saved

Marked out of 2

Flag question

Run Dijkstra's on the following graph and determine the resulting shortest path tree. you will visit the vertices in the following order_____



a. **S** , A , D , E , B , C , F

b. **S** , C , A , D , F, E , B

c. **S** , C , D , A , F, E , B

d. **S** , C , A , B , F, E , D

Clear my choice

Question 15

Not yet answered

Marked out of 2

Flag question

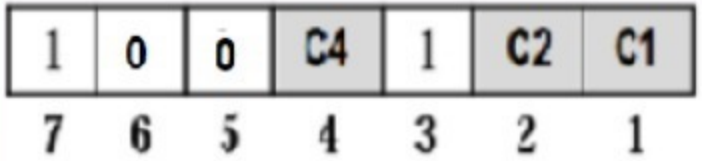
A series of 12-bits frame **(F = Data + R)** block message is transmitted across a data link using CRC for error detection. A polynomial of (P = 10011) is used. **At transmitter side** calculate the Remainder (R) and build the following transmitted frame (Data = 10101011) Frame = 10101011 + R

- a. R= 1 0 1 0
- b. R= 1 1 1 0
- c. R= 0 0 1 0
- d. R= 1 0 1 1
- e. None of them

Clear my choice

A series of 7-bit message block (frames) is to be transmitted across a data link using hamming code for error correction. Four check bits (C4 C2 C1) are calculated to enable the receiver to detect and correct single (one) bit error? At transmitter side calculate the following frame?

C4 =_____ C2= _____ C1= _____



- a. C1=0 , C2=0, C4=1
- b. C1=0 , C2=0, C4=0
- c. C1=1 , C2=0, C4=1
- d. C1=0 , C2=1, C4=1
- e. None of them

Question 9

Answer saved

Marked out of 2

Flag question

The **acknowledged connectionless** service is

- a. Better Quality
- b. Best Effort
- c. Reliable Delivery

Clear my choice

Question 10

Answer saved

Marked out of 2

Flag question

Match the following TCP/IP Protocols with their Corresponding Layers names?

Ethernet, Fast Ethernet, FDDI, SLIP & PPP Protocols	Application Layer
IP, ICMP, ARP, RARP Protocols	Network Access Layer
TCP, UDP Protocols	Transport Layer

Match the Glass Core dimensions and light types with their corresponding single mode and multi mode optical fiber?

Single Mode Glass Core dimension	5-8 Microns
Multi Mode Glass Core dimension	50-62.5 Microns
Multi Mode light type	LED Light
Single Mode light type	Lasers Light

A series of 12-bits frame **(F = Data + R)** block message is transmitted across a data link using CRC for error detection. A polynomial of (P = 10011) is used. **At transmitter side** calculate the Remainder (R) and build the following transmitted frame (Data = 10101011) Frame = 10101011 + R

- a. R= 1 0 1 1
- b. R= 1 1 1 0
- c. R= 0 0 1 0
- d. None of them
- e. R= 1 0 1 0

Link State Routing locally compute the shortest path to every other router (select the best path according to short distance)

Select one:

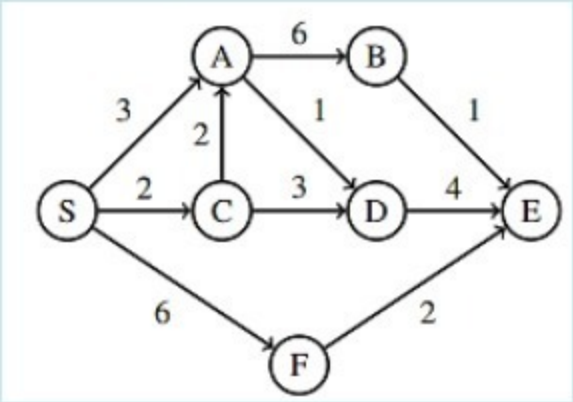
- (●) True
- ( ) False

Character count synchronization makes the first field in the frame's header be the length of the frame. The IEEE 802.4 standard uses this approach

Select one:

- True
- False

Run Dijkstra's on the following graph and determine the resulting shortest path tree. you will visit the vertices in the following order_____



- a. S , A , D , E , B , C , F
- b. S , C , A , B , F, E , D
- c. S , C , D , A , F, E , B
- d. S , C , A , D , F, E , B

Question 20

Answer saved

Marked out of 2

Flag question

Match the following advantages with their Corresponding topologies?

Difficult to change and configure	Bus Topology
Requires less amount of cables	Ring Topology
Easy and Quickly to troubleshoot	Star Topology

Match the following IP addresses with corresponding Classes?

153.22.58.0	Class B
122.55.56.91	Class A
233.21.19.77	Class D
206.45.87.3	Class C

Question 8

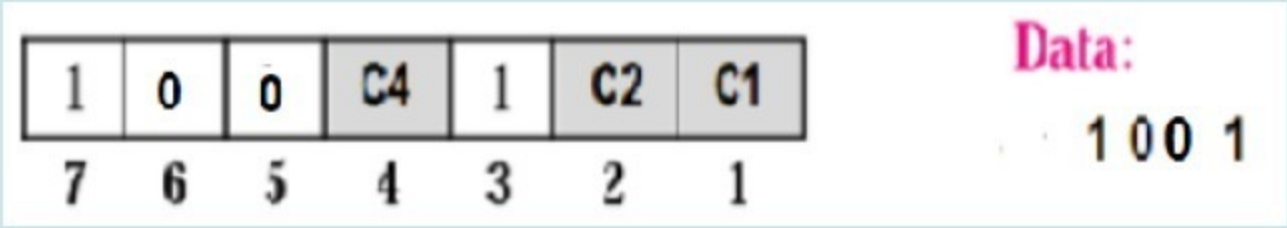
Answer saved

Marked out of 2

Flag question

A series of 7-bit message block (frames) is to be transmitted across a data link using hamming code for error correction. Four check bits (C4 C2 C1) are calculated to enable the receiver to detect and correct single (one) bit error? At transmitter side calculate the following frame?

C4 =_____ C2= _____ C1= _____



- a. C1=0 , C2=0, C4=0
- b. C1=0 , C2=0, C4=1
- c. C1=0 , C2=1, C4=1
- d. None of them
- e. C1=1 , C2=0, C4=1

Clear my choice

Question 18

Answer saved

Marked out of 2

Flag question

One of the following transport layer protocols is correct in connectionless communication is

Select one:

- a. IP Protocol
- b. FTP Protocol
- c. UDP Protocol
- d. TCP Protocol

Clear my choice

Question 19

Answer saved

Marked out of 2

Flag question

Match the following number of networks with their corresponding classes?

16384 networks	Class B
1 network	Class D
2,097,152 networks	Class C
128 networks	Class A

Question 21

Answer saved

Marked out of 2

Flag question

Match the following cable types with their Corresponding Signal types?

Multi Mode Optical Fiber	LED Light
Copper Twisted Pair Cable	Electrical Signal
Single Mode Optical Fiber	Lazer Light

Question 22

Answer saved

Marked out of 2

Flag question

Which of the following routing algorithms each node forwards packet to all its neighbors except the node the packet came from?

Select one:

- a. Link State Routing
- b. Shortest Path Routing
- c. Flooding Routing
- d. Distance Vector Routing

Clear my choice

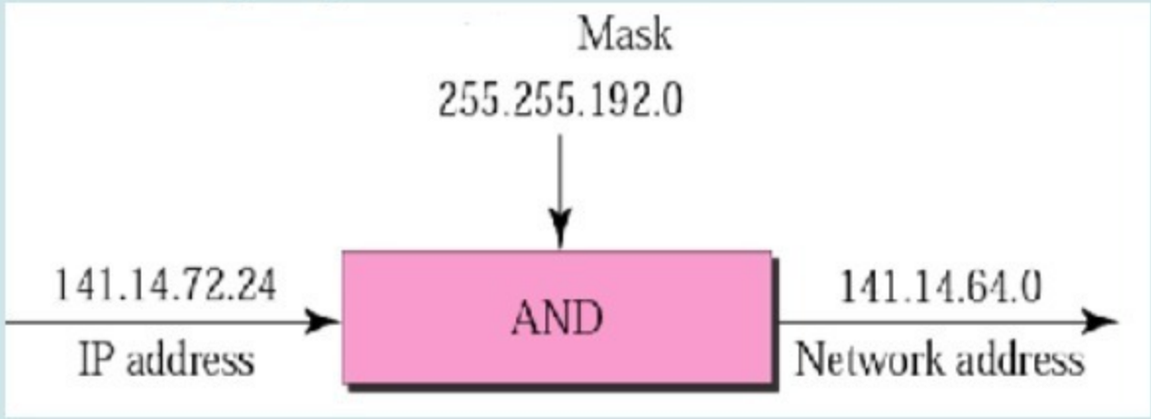
Question 24

Answer saved

Marked out of 2

Flag question

The following diagram is host address without subnetting



Select one:

- (●) True
- ( ) False

Question 25

Answer saved

Marked out of 2

Flag question

Typical impedances for coaxial cables are:

TV Cable	75 ohms
Ethernet Thicknet cable	50 ohms
Twisted Pair Cable	100 ohms
Ethernet Thinnet cable	50 ohms

Switch operates in which layer of the OSI model

Select one:

- a. Network layer
- b. Physical layer
- c. Transport layer
- d. Data link layer

One of the following transport layer protocols is correct in connectionless communication is

Select one:

- a. TCP Protocol
- b. IP Protocol
- c. FTP Protocol
- d. UDP Protocol

Question 13

Answer saved

Marked out of 2

Flag question

A company is granted the site address 211.33.12.0 . The company needs six subnets. Which of the following is the range of addresses in the first subnet?

- a. 211.33.12.0 --- 211.33.12.15
- b. 211.33.12.0 --- 211.33.12.63
- c. 211.33.12.0 --- 211.33.12.31
- d. 211.33.12.0 --- 211.33.12.41

Clear my choice

Question 14

Answer saved

Marked out of 2

Flag question

The .....layer of OSI model can use the trailer of the frame for error detection.

Select one:

- a. Data Link Layer
- b. Transport Layer
- c. Physical Layer
- d. Network Layer

Clear my choice

Faster memory access time is, greater cost per bit

Select one:

- True
- False

Question 1

Answer saved

Marked out of 2

Flag question

Which of the following cable carries only a single beam of light. This is more reliable and supports much higher bandwidth and longer distances than other cables.

Select one:

- a. Single Mode Optical Fiber
- b. Thick Coaxial Cable
- c. Multi-Mode Optical Fiber
- d. Thin Coaxial Cable

Clear my choice

Question 2

Answer saved

Marked out of 2

Flag question

A company is granted the site address 201.56.0.0 (class C). The company needs 32 subnets. Which of the following is the subnets.

- a. 255.255.255.248
- b. 255.255.255.252
- c. 255.255.255.192
- d. 255.255.255.0

We need to make a subnet network out of 16 class B blocks. The following is the subnet mask used?

11111111.11111111.11100000.00000000

Select one:

- True
- False