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Question No: 1 (Marks: 1) - Please choose one

In Direct point to point communication adding the Nth computer requires---------- new connections.

- None of the given
- N2
- **N-1 (Page 23)**
- (N2 –N)/2

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Question No: 2 (Marks: 1) - Please choose one
In Point-to-Point topology there are two topologies.
► Tree and Ring
► Star and Ring
► **Star and Tree (Page 5)**
► None of the given

Question No: 3 (Marks: 1) - Please choose one
In ----------, network occupies the smaller area like a room a floor or a building

► **LAN (Page 4)**
► WAN
► MAN
► None of the given

Question No: 4 (Marks: 1) - Please choose one
Hardware that calculates a CRC uses two simple components.
► AND unit and XOR unit
► **Shift register and XOR unit (Page 20)**
► Shift register and AND unit
► None of the given

Question No: 5 (Marks: 1) - Please choose one
CRC can detect more errors than a simple checksum.
► **true (Computer Networks and Internets, page 80)**
► false

Question No: 6 (Marks: 1) - Please choose one
The Gigabit Ethernet hardware operates at a rate of --------

► 10 Mbps
► 100 Mbps
► **1000 Mbps** Click here for detail
► None of the given

Question No: 7 (Marks: 1) - Please choose one
Formally named _____ informally known as the twisted pair Ethernet or TP Ethernet.

► 10 Base 2
► 10 Base 5
► **10 Base T (Page 43)**
► None of the given

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Question No: 8 (Marks: 1) - Please choose one
An interface for thin Ethernet must have an _____ connector , and must generate signals according to the_____ specification.

► **RJ-45, 10 Base T**
► RJ-45, 10 Base 5
► **BNC, 10 Base 2 (cs610 reference book Page 201)**
► BNC, 10 Base T

Question No: 9 (Marks: 1) - Please choose one
A system with redundant bridges might have a problem with_____ in the system.

► **Loop** Click here for detail **rep**
► Filters
► Spanning Trees
► All given choices

Question No: 10 (Marks: 1) - Please choose one
_____ computes shortest paths in a graph by using weights on edges as a measure of distance.

► Greedy algorithm
► Distance vector algorithm
► **Dijksta's algorithm (Computer Networks and Internets, page 112)**
► Non of the given

Question No: 11 (Marks: 1) - Please choose one
Basic LAN technologies such as Ethernet, Token Ring, and FDDI use a _____.

► **Connectionless service paradigm (Computer Networks and Internets, page 112)**
► Connection-oriented service paradigm
► Both Connectionless and Connection-oriented service paradigm
► None of the given

Question No: 12 (Marks: 1) - Please choose one
_____ protocols of TCP/IP layering model specify how to ensure reliable transfer.

► Physical Layer
► Network Interface Layer
► Internet Layer
► **Transport Layer (Page 84) rep**

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Question No: 13 (Marks: 1) - Please choose one
An Internet Address (IP address) is a unique _____ binary number assigned to a host and used for all communication with host
► 48-bit
► **32-bit (Page 85)**
► 24-bit
► None of the given

Question No: 14 (Marks: 1) - Please choose one
The address _____ identifies the physical network to which the computer is attached, while the _____ identifies an individual computer on that network.

► **prefix , suffix (Page 85)**
► suffix , prefix
► suffix , suffix
► None of the given

Question No: 15 (Marks: 1) - Please choose one
_____ places the boundary between the first and second octets

► **Class A (Computer Networks and Internets, page 235)**
► Class B
► Class C
► Class D

Question No: 16 (Marks: 1) - Please choose one
_____ places the boundary between the third and fourth octets.
► Class A
► Class B
► **Class C (Computer Networks and Internets, page 235)**
► Class D

Question No: 17 (Marks: 1) - Please choose one
_____ field of header indicates whether a datagram is a fragment or a complete datagram.

► **FLAGS Click here for detail**
► FLAGMENT OFFSET
► IDENTIFICATION
► None of the given

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Question No: 18 (Marks: 1) - Please choose one
_____ provides connectionless service.

► TCP
► **UDP (Page 120)**
► IP
► None of the given

Question No: 19 (Marks: 1) - Please choose one
UDP and TCP are both_____ layer protocols

► Physical
► Data link
► Network
► **Transport (Page 101) rep**

Question No: 20 (Marks: 1) - Please choose one
Connection-oriented service, Point-to-point, Complete reliability, Full-duplex communication, Stream interface, Reliable connection startup and Graceful connection shutdown are the services provided by_____

► IP
► None of the given
► **TCP (Page 123) rep**
► UDP

Question No: 21 (Marks: 1) - Please choose one
_____ protocols of TCP/IP layering model specify how to ensure reliable transfer.

► Physical Layer
►Network Interface Layer
► Internet Layer
► **Transport Layer (Page 84) rep**

Question No: 22 (Marks: 1) - Please choose one
_____identifies which application program on receiving computer should receive the data

► Logical address
► Source port
► **Destination Port (Computer Networks and Internets, page313) rep**
► None of the given

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Question No: 23 (Marks: 1) - Please choose one
_____ identifies the application program that sent the data.
► DestinationPort
► **Source port (Computer Networks and Internets, page313) rep**
► Logical address
► None of the given

Question No: 24 (Marks: 1) - Please choose one
The Border Gateway Protocol (BGP) uses_____ for all communication

► UDP
► **TCP** Click here for detail **rep**
► Both UDP and TCP
► None of the given

Question No: 25 (Marks: 1) - Please choose one
Which of the following protocols allows the sender and receiver to enforce polices.

► RIP
► OSPF
► **BGP (Reference Book 347) rep**
► RIP and OSPF

Question No: 26 (Marks: 1) - Please choose one
_____ uses distance vector approach to define routing

► BGP
► OSPF
► **RIP (Computer Networks and Internets, page332)**
► None of the given

Question No: 27 (Marks: 1) - Please choose one
ICMP message transport is acted upon by getting ICMP encrypted in IP.

► **True (Page 117)**
► False

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Question No: 28 (Marks: 1) - Please choose one
Protocol addresses are abstractions provided by _____.
► hardware
► **software (Page 93) rep**
► operating system
► internet

Question No: 29 (Marks: 1) - Please choose one
These packets serve same purpose on _____ as frames on _____

► Intranet, LAN
► Internet, WAN
► Intranet, WAN
► **Internet, LAN (Page 101)**

Question No: 30 (Marks: 1) - Please choose one
Address mask defines how many bits of address are in suffix?
► True
► **False (Page 103) rep**

Question No: 31 (Marks: 1) - Please choose one
A single networking technology is best for all needs.
► True
► **False (Page 81) rep**

Question No: 32 (Marks: 1) - Please choose one
A computer attached to a given network can only communicate with other computers attached to the same network. Is this a problem with multiple networks?

► **True (Page 81) rep**
► False

Question No: 33 (Marks: 1) - Please choose one
The term self-identifying is used for Classful IP addresses because the class of the address can be computed from the address_____.

► **itself (Page 87)**
► prefix
► suffix
► mask

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Question No: 34 (Marks: 1) - Please choose one
Find the class of the address.
10100111 11011011 10001011 01101111

► A
► **B (Computer Networks and Internets, page 122)**
► E
► C

Question No: 35 (Marks: 1) - Please choose one
Find the class of the address:
11110011 10011011 11111011 00001111

► A
► C
► **E (Computer Networks and Internets, page 122)**
► B

Question No: 36 (Marks: 1) - Please choose one
In which method of Address Resolution Protocol the protocol address is determined by hardware address?
Were "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

► T
► D
► **C (Page 97) rep**
► T, C

Question No: 37 (Marks: 1) - Please choose one
Which method of Address Resolution Protocol requires hardware broadcast?
Were "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

► **D (Page 97)**
► T
► C
► T, D

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Question No: 38 (Marks: 1) - Please choose one
Which method of Address Resolution Protocol resolution with minimum delay?
Were "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

► T, D
► c
► T
► **T, C (Page 97)**

Question No: 39 (Marks: 1) - Please choose one
In which method of Address Resolution Protocol the implimentation is more difficult?
Were "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

► T, C
► T
► C
► **D (Page 97)**

Question No: 40 (Marks: 1) - Please choose one
On of the design goals for unicast route propagation is _____.

► Consistency
► inconsistency
► **stability (Computer Networks and Internets, page 344) rep**
► dynamic addressing

Question No: 41 (Marks: 1) - Please choose one
Propagation multicast routing information differs dramatically from unicast route propagation?

► **True (Computer Networks and Internets, page 335)**
► False

Question No: 42 (Marks: 1) - Please choose one
The IP multicast abstraction allows an application running on an arbitrary computer to leave a multicast group at any time. While _____ application on a computer remain a member of a group.
► One or more
► only one
► no
► many

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Question No: 43 (Marks: 1) - Please choose one
To save traffic, an EGP does not summerize routing information from the autonomous system before passing it to another autonomous system.

► True
► **False (Computer Networks and Internets, page 329)**

Question No: 44 (Marks: 1) - Please choose one
In IPv6 the type of address used for collection of computers with same prefix. Are known as_____.

► Anycast
► Unicast
► Multicast
► **Non of the given (Page 114)**

Question No: 45 (Marks: 1) - Please choose one
Special types of addresses in IPv6 used for multiple destinations; possibly not at same site. Are known as_____.

► Unicast
► Anycast
► **Multicast (Page 114)**
► Non of the given

Question No: 46 (Marks: 1) - Please choose one
UDP offers application programs a Message-Oriented Interface, applications can depend on protocol to preserve data boundaries.

► **True (Page 120) rep**
► False

Question No: 47 (Marks: 1) - Please choose one
Reliability is the responsibility of the _____ layer

► Network
► Datalink
► **Transport (Page 123)**
► Application

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Question No: 48 (Marks: 1) - Please choose one
TCP uses _____ mechanism to control the flow of data.

► door
► **window (Page 126) rep**
► acknowledgment
► retransmission
TCP uses window mechanism to control the flow of data.

Question No: 49 (Marks: 1) - Please choose one
The time for acknowledgement to arrival of packet depends on.

► **Distance to destination and Current traffic conditions (Page 125)**
► Current traffic conditions
► Distance to destination
► non of these

Question No: 50 (Marks: 1) - Please choose one
FDDI can transmits data at a rate of ----------
► **100 million bits per second (Page 31)**
► 10 million bits per second
► 1000 million bits per second
► None of the given

Question No: 1 (M a r k s: 1)
Computer networks are often called ---------- because they use packet technology.

► Ethernet
► Switch networks
► **Packet networks (Computer Networks and Internets, page 73)**
► None of the given

Question No: 2 (M a r k s: 1)
A network uses a ------arranges for computers to be connected in a closed loop.

► Star Topology
► **Ring Topology (Page 25) rep**
► Bus Topology

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► None of the given

Question No: 3 (M a r k s: 1)
An ----------method, the network hardware designers specify how type information is included in the frame and the value use to identify various frame types.

► **Explicit frame type (Computer Networks and Internets, page 108)**
► Ideal frame type
► Implicit frame type
► None of the given

Question No: 4 (M a r k s: 1)
An interface for thin Ethernet must have an _____ connector , and must generate signals according to the_____ specification.

► RJ-45, 10 Base T
► RJ-45, 10 Base 5
► **BNC, 10 Base 2 (cs610 reference book Page 201) rep**
► BNC, 10 Base T

Question No: 5 (M a r k s: 1)
A Bridge forwards or filters a frame by comparing the information in its address table to the frame's_____

► Layer 2 source address
► Source node's physical address
► **Layer 2 destination address Click here for detail**
► Layer 3 destination address

Question No: 6 (M a r k s: 1)
Most WAN systems include a mechanism that can be used to eliminate the common case of duplication routing is called_____

► Hierarchal address
► **Default route (Computer Networks and Internets, page 172)**
► Shortest path
► None of the given

Question No: 7 (M a r k s: 1)
_____ of TCP/IP layering model, corresponds to basic network hardware.

► **Physical Layer (Page 84) rep**
► Network Interface Layer
► Internet Layer
► Transport Layer

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Question No: 8 (M a r k s: 1)
_____ protocols of TCP/IP layering model specify how to ensure reliable transfer.

- ► Physical Layer
- ► Network Interface Layer
- ► Internet Layer
- ► **Transport Layer (Page 84) rep**

Question No: 9 (M a r k s: 1)
_____is called an end-to-end protocol because it provide a connection directly from an application on one computer to an application on a remote computer.

- ► IP
- ► UDP
- ► **TCP (Computer Networks and Internets, page 306)**
- ► None of the given

Question No: 10 (M a r k s: 1)
_____ uses distance vector approach to define routing

- ► BGP
- ► OSPF
- ► **RIP (Computer Networks and Internets, page332) rep**
- ► None of the given

Question No: 11 (M a r k s: 1)
_____ is ideal in a situation where the group is small and all members are attached to contiguous Local Area Networks.

- ► **Flood-and –Prune (Page 143)**
- ► Configuration-and -Tunneling
- ► Core-Based Discovery
- ► None of the given

Question No: 12 (M a r k s: 1)
Router that decrements TTL to __ sends ICMP time exceeded message, with router's address as source address

- ► 3
- ► 2
- ► 1
- ► **0 (Page 118)**

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Question No: 13 (M a r k s: 1)
Protocol addresses are abstractions provided by _____.

- hardware
- **software (Page 93) rep**
- operating system
- internet

Question No: 14 (M a r k s: 1)
Although message exchange can be used to bind addresses, sending a request for each binding is hopelessly inefficient.

- **True (Page 99) rep**
- False

Question No: 15 (M a r k s: 1)
ARP is almost always used to bind a ___-bit IP address to a ___-bit Ethernet address.

- **32, 48 (Page 98)**
- 24, 32
- 32, 64
- 32, 128

Question No: 16 (M a r k s: 1)
In the 1970s large organizations began to acquire multiple networks. Each network in the organization formed island. Employees needed to choose a computer appropriate for each task. So they needed multiple screens, keyboards and computers.

- False
- **True (Page 81) rep**

Question No: 17 (M a r k s: 1)
In which method of Address Resolution Protocol the protocol address is determined by hardware address? Were "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

Features	Types of Resolution
Use full with any hardware	T
Address change affects all hosts	T
Protocol address is determined by hardware address	C

- T
- D
- **C (Page 97) rep**
- T, C

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Question No: 18 (M a r k s: 1)
The general form of an IP datagram is with a header followed by data. The header contains information that controls where and how the datagram is to be sent.

► **True (Computer Networks and Internets, page 332)**
► False

Question No: 19 (M a r k s: 1)
To save traffic, an EGP does not summarize routing information from the autonomous system before passing it to another autonomous system.

► True
► **False (Computer Networks and Internets, page 329)**

Question No: 20 (M a r k s: 1)
Which of the following is a correct representation of the IPv6?

► **105.220.136.100.255.255.255.255.0.0.18.128.140.10.255.255 (Page 114)**
► 105.220.136.100.255.255.255.256.0.0.18.128.140.10.255.255
► 105.220.136.100.255.255.255.255.0.0.18.128.140.10.255.255.256
► 105.220.136.100.255.255.255.255.0.0.18.128.140.10.255

Question No: 1 (Marks: 1) - Please choose one
The number of connections needed for N computer in direct point to point communication is equal to:

► **(N2 –N)/2 (Page 23)**
► N(N- 1)
► N^2
► None of the given

Question No: 2 (Marks: 1) - Please choose one
When an application---------- data, it makes a copy of the data available to all other computers on the network.

► **Broadcasting** Click here for detail
► Multicasting
► Unicasting
► None of the given

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Question No: 3 (Marks: 1) - Please choose one
Ethernet uses a ------ bit static addressing scheme in which each device is assigned a unique address by the manufacturer.

- ► 64
- ► **48 (Computer Networks and Internets, page 109)**
- ► 32
- ► 8

Question No: 4 (Marks: 1) - Please choose one
A system with redundant bridges might have a problem with_____ in the system.

- ► **Loop** Click here for detail **rep**
- ► Filters
- ► Spanning Trees
- ► All given choices

Question No: 5 (Marks: 1) - Please choose one
The product of delay and throughput measures the _____ of data that can be present on the network.

- ► Area
- ► **Volume (Page 80) rep**
- ► Length
- ► None of the given

Question No: 6 (Marks: 1) - Please choose one
Connectionless service, Message-Oriented protocol, best effort delivery service, arbitrary interaction and operating system independent are the characteristics of _____

- ► TCP
- ► **UDP (Page 110)**
- ► IP
- ► None of the given

Question No: 7 (Marks: 1) - Please choose one
Connection-oriented service, Point-to-point, Complete reliability, Full-duplex communication, Stream interface, Reliable connection startup and Graceful connection shutdown are the services provided by_____

- ► None of the given
- ► **TCP (Page 123) rep**
- ► UDP
- ► IP

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Question No: 8 (Marks: 1) - Please choose one
The process of using a routing table to select a next hop for a given datagram is called_____

- ► Encapsulation
- ► Reassembling
- ► **Routing or forwarding (Computer Networks and Internets, page 265)**
- ► None of the given

Question No: 9 (Marks: 1) - Please choose one
_____ uses distance vector approach to define routing

- ► BGP
- ► OSPF
- ► **RIP (Computer Networks and Internets, page332) rep**
- ► None of the given

Question No: 10 (Marks: 1) - Please choose one
A multicast routing scheme in which the protocol software builds a delivery tree from a central point is called_____

- ► Distance Vector Multicast Routing Protocol (DVMRP)
- ► **Core Based Trees (CBT) (Page 114)**
- ► Protocol Independent Multicast_ *Sparse Mode (PIM-SM)*
- ► Protocol Independent Multicast _ *Dense Mode (PIM-DM)*

Question No: 11 (Marks: 1) - Please choose one
One repeater _____, two repeaters _____ the maximum cable length limitation.

- ► doubles, cancel
- ► **doubles, triple (Page 49) rep**
- ► square roots, cude roots
- ► and, triple

Question No: 12 (Marks: 1) - Please choose one
Whenever it handles a packet, IP software needs to separate the destination address into a _____ and _____.

- ► postfix, Infix
- ► non of these
- ► Infix, prefix
- ► **prefix, suffix (Page 87)**

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Question No: 13 (Marks: 1) - Please choose one
Although message exchange can be used to bind addresses, sending a request for each binding is hopelessly inefficient.

► **True (Page 99) rep**
► False

Question No: 14 (Marks: 1) - Please choose one
ARP is almost always used to bind a ___-bit IP address to a ___-bit Ethernet address.

► **32, 48 (Page 98)**
► 24, 32
► 32, 64
► 32, 128

Question No: 15 (Marks: 1) - Please choose one
End-to-end delivery service is connection oriented.

► True
► **False (Page 101)**

Question No: 16 (Marks: 1) - Please choose one
A single networking technology is best for all needs.

► True
► **False (Page 81) rep**

Question No: 17 (Marks: 1) - Please choose one
In the 1970s large organizations began to acquire multiple networks. Each network in the organization formed island. Employees needed to choose a computer appropriate for each task. So they needed multiple screens, keyboards and computers.

► False
► **True (Page 81)**

Question No: 18 (Marks: 1) - Please choose one
Which method of Address Resolution Protocol is useful with any hardware?
Were "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

► **T (Page 97)**
► C
► D
► C, D

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Question No: 19 (Marks: 1) - Please choose one
In which method of Address Resolution Protocol the protocol address is determined by hardware address? Were "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

- ► T
- ► D
- ► **C** **(Page 97) rep**
- ► T, C

Question No: 20 (Marks: 1) - Please choose one
We use the term _____ to refer to a measure of the path that routing software use when choosing a route.

- ► routing path
- ► routing metric
- ► **routing** **(Computer Networks and Internets, page330)**
- ► switching

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