LAN, MAN, WAN, PAN:

1.Bank's ATM facility is an example of _____

:

1. LAN
2. WAN
3. Mixed networking
4. Multipurpose networking

2. Bluetooth is the wireless technology for

:

1. local area network
2. personal area network
3. metropolitan area network
4. wide area network

3. Which multiple access technique is used by IEEE 802.11 standard for wireless LAN?

:

1. CDMA
2. CSMA/CA
3. ALOHA
4. GSM

4._____specifies a set of media access control and physical layer specifications for implementing WLANS?

1. IEEE 802.16
2. IEEE 802.3
3. IEEE 802.11
4. IEEE 802.15

5.IEEE has defined the specifications for wireless LAN, called _____, which covers the physical data links

1. IEEE 802.11
2. IEEE 802.33
3. IEEE 802.44
4. IEEE 802.55

6.Which type of computer network is designed for a single building or campus

1. MAN
2. LAN
3. WAN
4. PAN

OSI model:

7. The number of layers in ISO OSI reference model is

1. 4
2. 5
3. 6
4. 7

8.How many OSI layers are covered in the X.25 standard?

:

1. Three
2. Four
3. Two
4. Seven

9.Which layer takes care of compression and encryption?

1. Application
2. Presentation
3. Session
4. Network

10.In asynchronous serial communication, the physical layer provides----------

1. start and stop signalling
2. congestion control
3. error control
4. connection control

11. Which of the following allows the client to update his/her DNS entry as his/her IP address changes?

:

1. dynamic DNS
2. mail transfer agent
3. authoritative name server
4. SMTP

12.Which of the following layer is closes to the transmission medium ?

1. Physical layer
2. Network layer
3. Transport layer
4. Application layer

13.which layer hides the complexities of data communications from the higher layers which are mainly concerned with supporting applications

1. session layer

2. transport layer
3. presentation layer
4. application layer

14.Delimiting and synchronization of data exchange is provided by

1. Application layer
2. Session layer
3. Transport layer
4. Link layer

15.The Protocol Data Unit (PDU) for the application layer in the internet stack is

1. Segment
2. Datagram
3. Message
4. Frame

16.Flow control and error control are functions of which layer

1. Physical layer
2. Application layer
3. Data link layer
4. Network layer

Which layer take care of compression and encryption?

1. Application
2. Presentation
3. Session
4. Network

Devises Bridge, Router, Modem:

Frames from one LAN can be transmitted to another LAN via the device _____

1. Router
2. Bridge
3. Repeater
4. Modem

When a router cannot route a datagram, datagram is discarded and sends a message to source i.e,

1. Destination unreachable
2. Destination unverified
3. Destination unavailable
4. Destination no entry

Identify the function of the firewall

1. Packet filtering
2. Packet expansion
3. Packet compression
4. Packet description

Firewall is

1. A system that prevents unauthorized access to a private network
2. A system that allows users to improve the speed of the computer
3. A system in which multiple computers are connected to one another
4. A system that scans and removes viruses from a computer

A device that helps prevent congestion and data collisions

1. Gateway
2. Hub
3. Switch
4. Proxy server

What is the function of network interface cards?

1. Connects the clients, servers and peripherals to the network through a port
2. Allows you to segment a large network into smaller, efficient networks
3. Connects networks with different protocols like tcp/ip
4. Boost the signal between two cable segments or wireless access points

Topology:

A topology that involves tokens is

1. Star
2. Daisy chaining
3. Ring
4. None

which network topology requires a central controller or hub ?

1. mesh
2. star
3. bus
4. ring

Minimal connectivity is

1. Star Topology
2. Bus Topology
3. Ring toplogy
4. Mesh topology

In which topology the network consists of direct link between two

1. Bus
2. Ring
3. Star
4. P2P

if n devices are connected by mesh topology that uses simplex connections, then how many cables or lines are required?

1. n
2. n-1
3. n(n-1)
4. n(n-1) /2

Which topology has minimal traffic?

1. Mesh
2. Ring
3. Bus
4. Star

Which network topology requires a central controller or hub?

1. Star
2. Mesh
3. Ring
4. Bus

.In n devices are connected by mesh topology that uses simplex connections, then how many cables or lines are required?

1. n
2. n-1
3. n(n-1)
4. n(n-1)/2

In which topology the network consists of direct link between two computers

1. Bus
2. Ring
3. Star
4. P2P

Which topology has minimal traffic?

1. Mesh
2. Ring
3. Bus
4. Star

TCP/IP:

Packets of the same session may be routed through different paths in:

1. TCP, but not UDP
2. TCP and UDP
3. UDP but not TCP
4. Neither TCP nor UDP

._____ switched network supports pipelining effect

1. Circuit
2. Virtual circuit
3. Message
4. Packet

Length of destination address in IPv4 is

1. 8 bytes
2. 32 bytes
3. 4 bytes
4. 16 bytes

HTTP client requests by establishing a _____ connection to a particular port on the server

1. User datagram protocol
2. Transmission control protocol
3. Border gateway protocol
4. Domain host control protocol

The values GET, POST, HEAD etc are specified in ____ of HTTP message

1. Request line
2. Header line
3. Status line
4. Entity body

Number of parallel TCP connections used in FTP is

1. 1
2. 2.
3. 3
4. 4

._____ has extensive flow and error control at both the data link and the network

1. X.23
2. X.24
3. X.25
4. X.26

The system used to map host names and email destination to IP address is called _____

1. url
2. www
3. email
4. dns

Which protocol is used for web browsing

1. FTP
2. HTTP
3. SNMP
4. RTP

The data link layer of TCP/IP is known as

1. Internet layer
2. Host to network layer
3. Application layer
4. Transport layer

Which option provide hosts with a way to use security

1. Loose source
2. Record route
3. Security
4. Time stamp

How many layers are present in the internet protocol stack (TCP/IP model)?

1. 5
2. 7
3. 6
4. 10

Which protocol is used for sending emails, and receiving emails respectively?

1. POP3, SMTP
2. IMAP, POP3
3. SMTP, POP3
4. IMAP, SMTP

Consider the below 4 actions in a network. What is the order in which these actions should be executed for communication between a web browser and a web server?

1) The web browser requests a webpage using HTTP
2) The web browser establishes a TCP connection with the web server
3) The web server sends the requests webpage using http
4) The web browser resolves the domain name using DNS

1. 4,2,1,3
2. 1,2,3,4
3. 4,1,2,3
4. 2,4,1,3

_____Allows you to connect and login in a remote computer

1. TELNET
2. FTP
3. HTTP
4. SMTP

TCP/IP model does not have ----------layer but OSI model have this layer

1. Session layer
2. Transport layer
3. Application layer
4. Network layer

TCP/IP model does not have---------- layer but OSI model have this layer.

1. session layer
2. transport layer
3. application layer
4. network layer

Which of the following transport layer protocol is used to support electronic mail?

1. SMTP
2. IP
3. TCP
4. UDP

---------- is a connection-less and unreliable transport protocol

1. TCP
2. IP
3. UDP
4. HTTP

Network addressing:

Which of the following is class B network address?

1. 128.4.5.6
2. 127.4.5.0
3. 127.0.0.0
4. 127.8.0.0

What is the class of IP address 172.50.4.12?

1. Class D
2. Class C
3. Class B
4. Class A

The network DDRESS OF 172.16.0.0/19 provides how many subnets and hots?

1. 7 subnets, each having 30 hosts
2. 8 subnets, each having 8190 hosts

3. 8 subnets, each having 2046 hosts
4. 7 subnets, each having 2046 hosts

Which address identifies a process on a host?

1. Physical
2. Logical
3. Port
4. MAC

Which of the following is correct regarding class b address of Ip address

1. Network bit-14, host bit-16
2. Network bit-16, host bit-14
3. Network bit-18, host bit-16
4. Network bit-12, host bit-14

MAC address is a ----- bit number

1. 24
2. 36
3. 48
4. 42

The Address Resolution Protocol (Arp) is used for

1. Finding the IP address from the DNS
2. Finding the IP address of the default gateway
3. Finding the IP address that corresponds to a mac address
4. Finding the mac address that corresponds to an IP address

Two hosts are 10,000 km apart and they are connected by single direct link of bandwidth 106 bits per second. What is the propagation time if the propagation speed along the link is $2x10^8$ m/sec

1. 50 milli sec
2. 100 mili sec
3. 200 milli sec
4. 400 milli sec

What is the class of the ip address 172.50.4.12?

1. CLASS D
2. CLASS C
3. CLASS B
4. CLASS A

How many bits are allocated for Network Id (NID) and host ID (HID) in the IP address 25.193.155.233?

1. 24 bit for NID, 8 bits for HID
2. 8 bit for NID, 24 bits for HID
3. 16 bit for NID, 16 bits for HID
4. 2 bit for NID, 8 bits for HID

In classful addressing, a large part of available addresses are

1. organised
2. blocked
3. wasted
4. communicated

Which of the following is correct regarding class b address of Ip address

5. Network bit-14, host bit-16
6. Network bit-16, host bit-14
7. Network bit-18, host bit-16
8. Network bit-12, host bit-14

What is the use of subnetting?

1. It divides one large network into several smaller ones
2. It speeds up the speed of the network
3. It divides one smaller network into further several smaller ones

Which address identifies a process on a host?

1. Physical
2. Logical
3. Port
4. Mac

The domain name system is maintained by

1. Distributed data base
2. A single server
3. A single computer
4. Mail transfer agent

Data gram network is also called

Connection oriented network
Connection less network
distributed
none

Output of encryption process is called

1. Plain text
2. Message
3. Cipher text
4. Key

Transmission media are usually categorized as _____

1. Fixed or unfixed
2. Determine or indetermined
3. Guided or unguided
4. Metallic or non metallic

the data communication, ATM is acronym

1. automated teller machine
2. automatic transmission mode
3. asynchronous telecommunication mode
4. asynchronous transfer mode

Which cable is typically used in the vicinity of the high voltage equipment

1. UTP
2. STP
3. Coaxial
4. Optical fibre

Two hosts are 10,000 km apart and they are connected by single direct link of bandwidth 10 ^6 bits per second. What is the propagation speed along the link is 2x10^8 m/s ?

1. 50 milli sec
2. 100 milli sec
3. 200 milli sec
4. 400 milli sec

.Three or more devices share a link in ---------- connection

1. Unipoint
2. Multipoint
3. Point to point
4. Simplex

In TDM, slots are further divided into

1. seconds
2. frames
3. packets
4. bits

Automatic repeat request error management mechanism is provides by

1. logical link control sublayer
2. media access control sublayer
3. network interface control sublayer
4. application access control layer

.The time taken by a packet to travel from client to server and then back to the client is called

1. STT
2. RTT
3. Ptt
4. FTP

.After doing low level format, what would be the next step in configuring the hard drive in a system

1. install OS

2. partition hard disk
3. configuration of DMS
4. format DOS partition

A 25 pin female connector on the back of your computer will typically be

1. Serial port1
2. Com2 port
3. Docking
4. Parallel port

---------- cable carries signals of higher frequency ranges the ---------- cable

1. Twisted- pair, coaxial
2. Twisted- pair, fibre-optic
3. Coaxial, twisted-pair
4. Coaxial, fibre -optic

.---------- handles the interconnection between most of the devices and the cpu

1. Northbridge
2. Southbridge
3. SRAM
4. PCI slot