

ASSIGNMENT - II

DATA - COMMUNICATION

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DATA COMMUNICATIONS

① What are the different type of networks?

PAN (personal Area network)

LAN (Local Area network)

MAN (Metropolitan Area network)

WAN (wide Area network)

② Shielded twisted pair (STP) and unshield twisted pair cable?

STP has the individual pair of wire wrapped in foil, which are then wrapped again for double protection.

Most commonly used twisted cable.

③ D/B base band and broadband transmission

Base band transmission

Digital transmission

transmit single at a time with very high speed

Broad band transmission

Analog transmission

Transmit several simultaneously using different frequency.

what is the different between the hub, modern routes and a switch?

Hubs	unlike switches, hubs broadcast data to all ports, which is inefficient, so hubs are basically a multipoint repeaters
Modems	Standards for modulating - demodulating modems are hardware devices that allow a computer or another device such as a router or switch to connect to the internet.
Routers	Responsible for sending data from one network to another work at layers (network) of the OSI model which deals with IP address.
Switch	They use MAC address of a device to send data only to the port destination device is plugged into.

⑤ when you move the NIC cards from one PC to another PC, does the MAC address gets transferred as well.

Yes, That's because mac address are hard wired in to the NIC circuitry, not the PC. This also mean that a PC can have a different MAC address when the NIC cards was replace by another one.

⑥ when trouble shooting computers network problems what common hardware - related problem can occur?

POBX, LAN card, WLAN card and with AP if it is wireless, cable, switchless, readress and wireless, controlless, most problems are hardware related a faulty power cable or power supply unit.

7) In a network that contains two servers and twenty workstations where is the best place of install an anti-virus program?

The best solution is the install anti-virus on the computers in the network.

⑧ Define static IP and dynamic IP? Discuss the difference between IPv4 and IPv6?

When a device is assigned a static IP address, the address does not change. Most devices use dynamic IP addresses, which are assigned by the network when they connect and change over time.

The main difference between IPv4 and IPv6 is that IPv4 is a 32-bit address, whereas IPv6 is a 128-bit hexadecimal address.

⑨ Discuss TCP/IP model in detail?

TCP/IP stands for Transmission Control Protocol/Internet Protocol and is a suite of communicating protocols used to interconnect network devices on the Internet.

⑩ What is a web browser? Give some examples of browsers.

A web browser is an application used to access and view websites.

Eg. Microsoft Edge, Google Chrome, Mozilla Firefox.

⑪ what is a search engine? example?

A search engine is a web-based tool that enables user to locate information on the world wide web.

Ex. google, yahoo, and MSN search.

⑫ what is an Internet www? what are the uses internet in our daily life?

The world wide web (www) is a combination of all resources and uses on the internet that are using the hypertext transfer protocol.

⑬ what is an Internet service provider? give some example of ISP in India?

A internet service provider (ISP) is a company such as A.T. & T, Comcast, or Spectrum that provide Internet access to companies, families and even mobile users.

Ex: Airtel, BSNL

14 Difference between MAC address, IP address
Port address

A MAC address is assigned to the network interface card by the manufacturer and is used for communication within the local area network.

* An IP address is used for communication between networks

* Port addresses are used as part of IP communication to determine which program the communication is to on form.

15 How do we view my Internet browser's history?

On your computer, open Chrome. In the address bar, enter @ history. Press. Tab (or) Space. You can also click Search history in the suggestion. Enter key word for the page you previously visited. Select the page from the list.