

ASSIGNMENT - 2

DATA COMMUNICATION

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DATA COMMUNICATIONS

Q1. What are the different type of Networks?

PAN (Personal Area Network)

LAN (Local Area Network)

MAN (Metropolitan Area Network)

WAN (Wide Area Network)

Q2. Shielded twisted pair (STP) and unshielded twisted pair cable?

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

most commonly used twisted cable

Q3. D/B base band and broadband transmission

Base band transmission	Broadband transmission
Digital transmission Transmit single at a time with very high speed	Analog transmission Transmit several simultaneously using different frequency.

④ What is the difference between the hub, modem, router and a switch?

Hubs	Unlike switches, hubs broadcast data to all ports, which is inefficient, so hubs are basically a multiport repeaters.
Modem	Standards for modulating-demodulating modems are hardware devices that allow a computer or another device, such as router or switch to connect to the internet.
Routers	Responsible for sending data from one network to another work at layers (Net work) of the OSI model which deals with IP address.
Switches	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 addresses are hard-wired into the NIC circuitry, not the PC. This also means that a PC can have a different

MAC address when the NIC cards was replace by another one.

- ⑥ When trouble shooting computes network problems what common hardware - related problem can occur?

POBx, LAN, card, WLAN card and with AP if it is wireless, cables, Switches, Routers and wireless controllers, 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 to install anti-virus on all 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 address, which are assigned by the network when they connect and change over time

The main difference between IPv4 and IPv6 is the address size of IP address. The IPv4 is a 32-bit address, whereas IPv6 is a 128-bit hexadecimal address.

Q) Discuss TCP/IP model in detail?

TCP/IP stands for transmission control protocol internet protocol and is suite of communication protocol used to interconnect network devices on the internet.

Q. 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.

Q) 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 to our daily life?

The world wide web (www) is a combination of all resources and users on the internet that are using the types text transfer protocol (HTTP).

Uses:

Email, sharing of files, viewers, watch movies and songs.

⑬ What is an Internet service provider? Give some example of ISP in India?

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

Eg: Airtel, BSNL.

⑭ Difference between MAC address, IP address and portal address.

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

- * An IP address is used for communication between networks.
- * Port address are used as part of IP communication to determine which program the communication is to or from

Q) How do we view my Internet browser history?

on your computer, open chrome. On the address bar enter @ history press, tab (or) space. you can also click search history to the suggestions. Enter key words for the page you previously visited select the page from the list