

ASSIGNMENT - II

DATA COMMUNICATION

Done by :

K. Sujitha

B. Com (G)

25 / 8 / 23

CCA

DATA COMMUNICATIONS

What are the different types of networks?

- * PAN (Personal Area Network)
- * LAN (Local Area Network)
- * MAN (Metropolitan Area Network)
- * WAN (Wide Area Network)

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 pair cable.

3. D/B base band and broad and transmission?

Baseband Transmission

Broadband Transmission

Digital Transmission

Analog Transmission

Transmit Single Signal at a time with very high speed.

Transmit Several Simultaneously using different frequency.

What is the difference between a hub, Modern Router and a Switch?

Hubs - unlike switches, hubs broadcast data to all ports, which is inefficient. So hubs are basically a Multipoint repeater.

Modern - Stands for "Manufacturing demarcating" Modern hardware devices that allows Computer or another device such as router or switch to connect to the internet.

Switch - They use the 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 get transferred as well?

Yes, that's because MAC addresses are hard-wired into the circuitry, not the PC. This also means that a PC can have a different MAC address when the NIC card was replaced by another one.

6. When trouble shooting Computer network problems, what common hardware related problems occur?

PABX, LAN card, WLAN card and WIFI, if it is wireless, cables, switches, routers and wireless controllers. Most problems are hardware related or faulty power cable or power supply unit.

7. In a network that contains two servers and twenty workstations, where is the best place to 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?

When a device is assigned a static IP address the address does not change. Most devices use dynamic IP address.

* The main difference between IPv4 and IPv6 is the address size of IP address.

Discuss TCP/IP Model in details?

* TCP/IP stands for Transmission Control Protocol/Internet Protocol and is a Suite of communication protocols used to interconnect network devices on the internet.

What is web browser (Browser)? Give some example.

A web browser is an application used to access and view websites.
eg: Microsoft edge, Google Chrome, Mozilla Firefox.

What is a Search Engine? Example.

A Search Engine is a web based tool that enables users to locate information on the world wide web.

eg: Google, Yahoo! and MSN Search.

What is a Internet WWW? What are the uses of internet in our daily life?

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

Uses: E-Mail, Sharing of files, News, watch Movies, Songs.

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, Spectrum that provides Internet access to companies, families and even mobile users.

eg: Airtel, BSNL.

14. Difference between MAC address, IP address & port address?

* MAC address is assigned to the network interface card by the Manufacturer and is used for communication between networks.

* An IP address is used for communication within the local area network and for communication between networks.

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 suggestions. Enter keywords for the page you previously visited. Select the page from the list.