



☞ **Dear students: - Copy the note and do the given homework on your exercise book!**

Subject: ICT

Grade & section 11(A – E)

Unit: **4**

Main topic: **computer networking**

Sub topic/s: **network protocols**

Open source Note

Monday, March 30, 2020

Network protocols

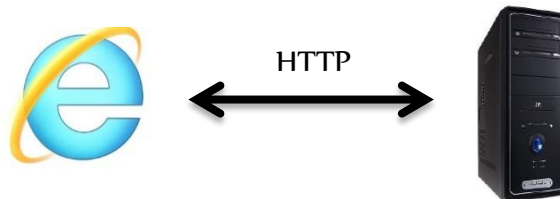
Network protocols define the rules that govern the communication between two nodes connected to the network. Some of the rules are listed below.

- Addressing and routing of messages.
- Error detection and recovery rules.
- Sequence and flow controls...

Examples of Network protocols

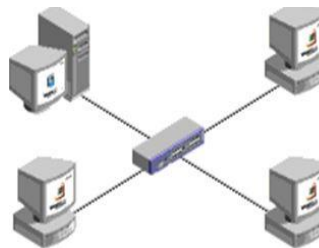
- 1) HTTP: Hypertext Transfer Protocol.

It is a protocol for the communication between web browsers and servers.



- 2) FTP: file transfer protocol

It allows the transfer of files between two machines connected to the network or internet.



- 3) Telnet: Terminal Protocol

It allows a user to connect to a remote host in terminal emulator or node.

- 4) SMTP: Simple Mail Transfer protocol

It defines a basic service for Electronic mail.

- 5) IP: Internet Protocol

It provides two main functionalities; decomposition of the initial information flow into packet of Standard size, and reassembling at the destination.

Tuesday, March 31, 2020

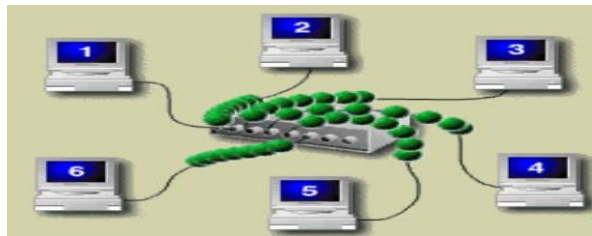
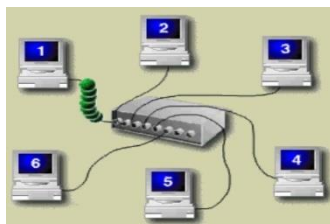
Network Connectivity Devices

- ❖ Hub Crimper
- ❖ Switch RJ-45 Clip
- ❖ Router Cat 5 or Cat 6 Cables

Hub



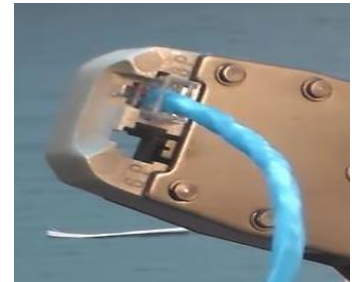
A Hub is a Repeater with multiple ports (multi-port repeater). Hub joins two or more twisted pair cables. When the hub receives the incoming signal, it amplifies and sends it out over all its ports →broadcasting. Only one station can transmit at a time.



Crimper



It is a networking device which helps to connect RJ-45 clip with the network cable.



RJ-45 Clip Connector



It is a networking device which helps to grasp Cat 5 or cat 6 cables and helps to plug in to the computer along with the hub.

Cat 5 or cat 6 cables



Cables are used to distribute network signals among different devices in particular network system.