

## UNIT-1 :- Topics:-

- Network hardware & Software
- OSI Reference model
- TCP/IP Reference model
- ARPANET, Internet
- Guided Transmission media:-

twisted pairs

Coaxial cable

fibre optics

Wireless transmission.

PART -1

PART-2

# Network Hardware

• The basic Hardware Components in a Network

→ Network cables :- Network cables are the transmission media to transfer data from one device to another

→ Routers :- Router is a connecting device which transfers Data packets between different Computer Networks.

→ Repeaters :- A repeater receives signal and regenerates it before re-transmitting so that it can travel longer

→ Hubs :- A Hub is a multi-port repeater

→ Bridge :- A Bridge connects two separate Ethernet network

→ Gateways :- A gateway connects entirely different networks that work upon completely different protocols.

