

# Computer Networks

05 lesson

Grade 10



A collection of computers in a school computer laboratory or an organization, connected together is called computer network

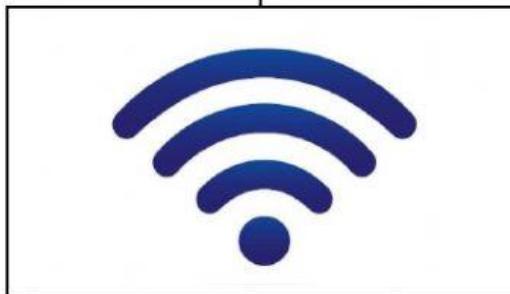
## Several advantages of computer networking



# Types of network connections

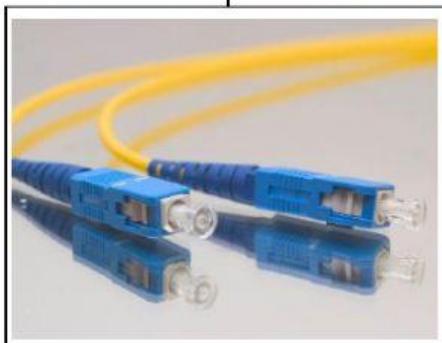


Wired



Wireless

## Cabling used in wired connections

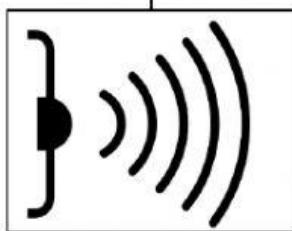


Fiber optic cables

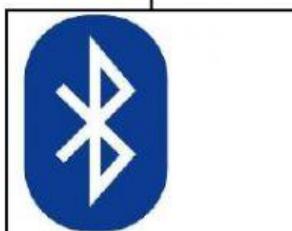


Twisted pair cables

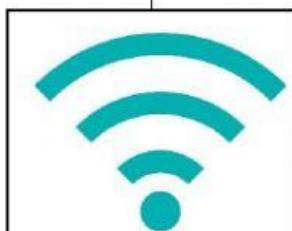
## Wireless media



Infrared waves



Bluetooth



Wi-fi waves



Radio waves

## Basic devices of a Network

The server manages the software, the hardware, the files and communication in the network. Any ordinary computer with the necessary software installed can be used as a server.



Server

The switch acts as the mediator between two or more computers. The switch recognizes the destination computer or the device when messages are sent from one computer to another in the network.

e.g.- when printing command is given from one computer that message is sent to the relevant device i.e. the printer via switch.



Switch

Network Interface Card connects a computer to a computer network.



Network Interface Card

RJ45 connector cables



RJ45 cables

## Evaluation

1. A system of interconnecting computers is known as.....
- 2.....means storing, accessing information over the Internet other than hard drive of your system
3. Coaxial/telephone cable sends ..... signal during the data transmission
- 4.....is a set of rules and procedures to establish a link between the sender and the receiver.
5. In a ..... topology, the host computer is connected to local computers
6. A combination of different types of network is known as ..... Network
7. Wi-Fi system means .....s data transmission.
8. A..... signal works on *discrete* data, which states only two conditions.
9. In a Star topology, the local computers are connected to .....computers.
10. ..... provides the path through which a message travels from a source to the destination.

