

Computer Fundamentals – Short Notes

1. What is a Computer?

A computer is an electronic device that accepts data as input, processes it according to instructions, and produces meaningful output.

2. Components of a Computer

- Input Devices: Keyboard, Mouse, Scanner
- Output Devices: Monitor, Printer, Speaker
- CPU: Control Unit, ALU, Registers
- Memory: RAM, ROM

3. Hardware and Software

Hardware refers to physical parts of a computer. Software refers to programs that run on hardware.

4. Types of Software

- System Software (Operating System)
- Application Software
- Utility Software

5. Operating System

An operating system manages hardware, software, memory, files, and user interaction.

6. Memory

Primary Memory: RAM, ROM

Secondary Memory: Hard Disk, SSD, Pen Drive

7. Data Representation

Data is represented in binary form (0 and 1). Units include Bit, Byte, KB, MB, GB.

8. Number System

Binary, Decimal, Octal, and Hexadecimal number systems are used in computing.

9. Computer Network

A network connects computers to share data and resources. Types include LAN, MAN, WAN.

10. Internet

The internet is a global network used for communication, information, and services.