Computer Fundamentals

➤ **Generations of Computer (I-V)**

➤ **Block Diagram of a Computer**

➤ **Functions of the Different Units**
Input unit,
Output unit,
Memory unit,
CPU

➤ **Input & Output Devices**
Input Devices:
a) Keyboard,
b) Point and draw devices mouse, joystick, track ball, light pen
c) Data Scanning devices image scanner, OCR, OMR, MICR, Bar code reader
d) Voice Recognition Device
e) Digitizers
Output Devices:
a) Monitor
b) Printer laser printer, dotmatrix printer, ink jet printer
c) Projector

➤ **Memories [Memory hierarchy]**
1. Registers [Types of Registers]
2. Cache Memory
3. Primary Memory
i) RAM
ii) ROM
4. Secondary Memories
i) Hard disk
ii) Floppy
iii) CD

➤ **Software**
1. System Software
a. Operating System
i. Functions of O/S
ii. Types of O/S
b. Program Language Translators
i. Assembler
ii. Compiler
iii. Interpreter
2. Application Software
3. Computer Languages
a. Machine language
b. Assembly language
c. High level language