1. **What is the meaning of Information Technology?**

Information technology is made by combining the two words "Information" and "Technology".

- **Computer systems: Characteristics of a computer, components of a computer system – CPU, Memory, storage devices, and I/O devices.**
- **Memory: Primary memory(RAM and ROM) and Secondary memory.**
- **Storage devices: Hard disk, CD ROM, DVD, memory stick**
- **Types of software: System software(operation system, device drivers)**
- **Computer networking: PAN, LAN, MAN, WAN, Wi-fi, Bluetooth, cloud computers.**
- **Multimedia: Images, audio, video, animal**

2. List elements or Components of a computer system?

Elements or Components of a computer system:

There are many five major components of a computer system:

- **Memory unit**
- **storage unit**
- **control unit**
- **hardware and software**
- **ALU**

3. What is the function of control unit ?

The function of control unit are :

- **The Control Unit controls all the devices connected to the computer system**
- **It also programs execution along with device communication**

- **It communicates between processor and memory and computer peripherals**

4. why is a firewall used in a computer

Firewalls **provide protection against outside cyber attackers by shielding your computer or network from malicious or unnecessary network traffic**.

Firewalls can also prevent malicious software from accessing a computer or network via the internet.

5. identify the language which is mainly used for artificial intelligence?

Python is a high-level programming language for AI.

It's one of the most frequently used programming languages, with applications in AI, machine learning, data science, web apps, desktop apps, networking apps, and scientific computing.

<p align="center">**Mcq questions**</p>

1. **What is the process at the most detailed level of the data flow diagrams known as?**
   a. Interfaces
   b. **Functional primitives**
   c. Data flow
   d. Transform descriptions
2. **Total bits used by the IPv6 address is _____**
   a. 64 bit
   b. 256 bit
   c. **128 bit**
   d. 32 bit

3. **The full form of DOM is?**
   a. Document Oriented Memory
   b. **Document Object Model**
   c. Document Object Memory
   d. None of the above
4. **Identify the total standard color names that HTML supports.**
   a. **140**
   b. 120
   c. 70
   d. 30
5. **Identify the different features of Big Data Analytics.**
   a. Open source
   b. Data recover
   c. Scalability
   d. **All of the above**