

## **COMPUTER CONCEPTS:**

**Computer Basics:** Organization of computer, Central Processing unit (CPU), Structure of instructions in CPU, Input/Output devices, Computer memory, Memory organization,

**Data Representation-:** Representation of characters, Integers, Binary and hexadecimal representation, Binary arithmetic – addition, subtraction, division, multiplication, signed arithmetic and two's complement arithmetic. Floating point representation of numbers, normalized floating point representation, Boolean algebra, truth tables, Venn diagrams

**Data Structures:** Arrays, lists, stacks, queues

**Computer Architecture:** Block structure of computers, Communication between processor and I/O devices, Interrupts

**Computer Language:-**Assembly language and high level language, Computer programming in C

**Operating System Basics:**