

**Semester-I**  
**Course: B.Sc (Hons) IT**  
**Paper Code: BSIT-106**  
**Nomenclature: Computer Fundamentals**

**Max. Marks: 40+10**  
**Time: 3hrs.**

**Unit-I**

**Introduction to computer system:-** What is a Computer, Evaluation & Generation of computers, Applications and characteristics of computers, elements of Computer (Hardware, Software), common input & output devices (Basic idea). Types of Computers: Micro, Mini, Main frame, super computers, Block diagram of PC architecture, concept of files and directories.

**Unit-II**

**Secondary storage devices:-** Sequential and direct access devices, Magnetic disk, Floppy Disk, Winchester Disk, Mass Storage, Optical Disk, Magnetic Bubble Memory, Charged Coupled Device, Cache Memory, Storage hierarchy.

**Unit-III**

**Introduction to computer software: -** What is Software, Relationship between Software and Hardware, Types of softwares: System Software (Meaning and its type), Application software, Acquiring Software, Software Development Steps, Firmware, Middleware.

**Unit-IV**

**Windows: -** Windows as an interface, Introduction to desktop, accessories, internet: definition, basic services and uses, multimedia: meaning, multimedia components, applications Word: Introduction of Word, creating, editing a document, modifying and formatting a document, using the speller in word, Creating and using macros.

**Reference Books:**

1. Computer Fundamentals by P.K Sinha
2. Digital Fundamentals by Thomas L. Floyd

**Note:**

1. Syllabus in each Theory Paper is divided in 4 units.
  - I. A Student is required to attempt 5 questions in all.
  - II. Question No 1 is compulsory, consisting of short answer type questions based on all the 4 units.
  - III. Two questions will be set from each unit. A student is required to attempt one question from each unit.
  - IV. All questions carry equal marks.
2. Use of simple calculator is permissible.
3. Instructions should be imparted using SI system of units. Familiarity with CGS system of units should also be ensured.
4. Distribution of Marks:  $40+10^*=50$ .  
\* Each question paper will be of 40 marks and 10 marks in each theory paper are awarded through internal assessment in each semester.
5. Work load – 3 periods per week per theory paper.