

CONTENT

Unit. I : Basics of Computers and their Evolution

Computer; What makes a computer powerful?; Computer Types: *Descriptions*; Descriptions of Personal Computers; Main Frame ; Supercomputers ; Distributed or Grid Computing; Other Important Terms; Applications and various fields of Computer; Generation of Computer; Number Systems ; Questions; Answers.

Unit. II : Input Devices

Keyboard; Mouse; Joystick; Digitising Tablet; Touch Sensitive Screen; Light Pen; Space Mouse; Digital Stills Camera ; Magnetic Ink Character Recognition (MICR); Optical Mark Reader (OMR); Image Scanner; Bar Codes; Magnetic Reader; Smart Cards; Voice Data Entry; Sound Capture; Video Capture; Output device; Primary Memory ; Data Processing; Data Management; Data Organization; Database Management Systems; Data Warehousing; Future Trends; File Management System; Database Management System [DBMS]; Data Base System In values For Major Components; Functional Dependency; Distributed Database; Data Mining; Data Warehouses ; Electronic Payment Systems; Electronic Cash (E-cash); Electronic Wallets; Smart Cards; Credit Cards; Credit Card Processing; Brand Creation on the Web; Web Auction Strategies; Web Communities; The Legal Environment in E-commerce; Questions; Answers.

Unit. III : Operating System Concepts

Introduction; Simple Batch Systems; Spooling; Time-Sharing Systems; Process Management; Windows; File Operations; File Renaming; Searching For Files and Directories; Working With Floppy Disks; Introduction to MS-Word—

Introduction; What is Word-Processing?; Important Features of Ms-Word; Getting Started With MS-Word; Main Menu Options; Introduction – What is a Spreadsheet?; Formulas; Using New Values within the Sheet; Functions; Toolbars; Creating a Presentation; Choosing and Applying a Template; Applying a template to an existing presentation; Slide Layouts; Adding a Slide; Deleting a Slide; Adding Text to a Slide; Editing a Text Box; Adding Pictures; From Clip Art; From a File; Drawing in PowerPoint; Formatting Pictures; Working in Slide Sorter View; Working in the Outline; Using the Slide Master; Formatting Text; Adding date, page numbers, and footers to slides; Special save: “Package for CD”; Printing; Presenting Your Slide Show; Questions.

Unit. IV : Concepts of Data Communication and Network

Introduction; Objectives; Data Communication; Computer Network; Network Topology; Internet; OSI (Open Systems Inter Connection) Reference Model; OSI Model; Client/Server Model of Computing; Questions; Answers.

Unit. V : Fundamentals of C Programming

Section 1 : History of C programming
Section 2 : Compiling a simple C program
Section 3 : Variables, Data Types and Constants
Section 4 : Arithmetic Expressions
Section 5 : Control of Flow
Section 6 : Arrays
Section 7 : Functions
Section 8 : Structures and Unions
Section 9 : Strings
Section 10 : Pointers
Section 11 : Operation on Bits
Section 12 : Input and output
Section 13 : File handling
Section 14 : C Preprocessor
Section 15 : Miscellaneous