

# Computer Fundamentals and Programming in C



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## Product Description

Explains the introduction to computers, history of computer, computer generations, classification of computers and applications of computer in corporate environment. Presents the basic organization of a computer system and its internal working. Describes the concept of number systems, computer codes and arithmetic, logic gates and Boolean algebra. Introduces the concept of primary and secondary storage. Explains the concept of different input and output devices. Presents the concept of computer software's and programming languages. Deals with commonly used various tools for planning the computer program like algorithm, flowcharts, pseudo code and decision tables. Complete introduction to C Programming including basic structure is given in detail. Extensive coverage of constants, variables, various data types are given in detail. Various types of operators and expressions are described with the help of examples and simple programs. Demonstrates the description of console I/O statements in a lucid manner. Each and every control statement is described with the help of flowcharts and simple programs. Includes numerous illustrative examples to understand the topic easily. Demonstrate every program in a good programming style. Around 200 numerous solved C Programs and 100 objective type questions are included. Contains numerous theory exercises at the last of each chapter. Gives detailed description of arrays, strings and functions in lucid manner. Covers all concepts of pointers like array and pointer, function and pointer, dynamic memory allocation in detail. Detailed analysis of each and every storage class is covered with the help of programming examples. Detailed description to the concept of structures and unions.

## Table of Contents

**UNIT I Chapter 1:** Introduction to Computer. **Chapter 2:** Basic Computer Organization. **Chapter 3:** Number System, Logic Gates and Boolean Algebra. **Chapter 4:** Computer Arithmetic and Codes. **Chapter 5:** Computer Languages. **Chapter 6:** Chapter 6: Primary Storage & Secondary Storage. **Chapter 7:** Input & Output Devices. **Chapter 8:** Planning The Computer Program. **Chapter 9:** Computer Software. **Chapter 10:** Operating Systems.

**UNIT 2 Chapter 1:** Getting started with C. **Chapter 2:** Operators and Expressions. **Chapter 3:** Console Input and Output statements. **Chapter 4:** Control Statements. **Chapter 5:** Arrays. **Chapter 6:** Strings. **Chapter 7:** Functions. **Chapter 8:** Storage Classes. **Chapter 9:** Pointers. **Chapter 10:** Structures and Unions. **Chapter 11:** C Preprocessor and Character Test Functions. **Standard Library Functions List of Library Ascii Chart**



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## Author

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