Programming in C

Unit-I

1. Explain the classification of Computers.
2. Explain about memory hierarchy in Computers.
3. What is an Operating System (OS)? What are the different types OS?
4. Explain the overview of CPU.
5. Discuss the Structure of C program.
6. Explain the process of developing a C program. (Executing a C program)
7. What are the different data types in C?
8. What are the tokens of a C program?
9. Discuss various operators in C. (All arithmetic operators)
10. Explain about type conversion. (type casting)

Unit-II

1. What are the formatted I/O operations in C? (**printf(), scanf()**)
2. Explain about conditional/branching statements in C. (if, if-else, nested if, switch)
3. What are the looping statements in C? (while, do-while, for)
4. Explain about arrays in detail. (1-D and 2-D arrays definitions, declarations and initializations)
5. Discuss various character functions in C. (ctype.h)
6. Discuss various string functions (string handling functions) in C. (string.h)

Unit-III

1. Define a function. What are the various pre-defined functions/built-in functions in C?
2. Explain the elements of user-defined functions. (Function declaration, Function call, Function definition).
3. Explain about call-by-value and call-by-reference mechanisms with examples.
4. What are the various storage classes in C? Explain with examples.
5. Explain about pointers in detail.
6. Discuss arrays of pointers.
7. Explain about Dynamic Memory Allocation.

Unit-IV

1. Explain structures in detail.
2. Explain unions in detail.
3. Discuss structures vs unions.
4. Explain about enumerated types (enums).
5. Discuss various file organization methods.
6. Explain about random access to files of records.

unit 1

4,5,7,9

Unit2

1,3,4,6
Unit 3

2,3,4
Unit4

1,2,3,4,5