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12 MARKS QUESTIONS [LONWYW.FirstRanker.com

# UNIT – I

- 1. Explain the Generations of a Computer.
- Explain various types or classifications of a computer.
- What is Memory? Explain various Memory Devices (or) Memory Hierarchy (or) Types of Memories.
- What is Computer? Explain the features (characteristics) and Limitations of a computer.
- Briefly explain the Elements (Components) of a computer system (or) Block Diagram of a Computer (or) Logical organization of a digital computer (or) Anatomy of a Computer.
- Explain the various input and output devices.
- Explain various Secondary Storage Devices.
- What is Software? Explain different types of software.
- Explain various generations or classifications of programming languages.
- Briefly explain the logical phases of a compiler model.
- Discuss in detail the steps involved in developing a program.
- Explain the steps involved in Software Development.
- Define Algorithm. Explain the steps for algorithm development with an example.
- 14. What are the different ways of stating algorithms?
- Define Flow-chart. Explain guidelines, advantages and limitations of using flow charts.
- Explain the structure (or) various parts of a C-Program.
- What is a Data Type? Explain different data types in detail.
- What is an Operator? Explain different operators in C with suitable examples.
- Discuss in detail about Expressions, Associativity and their Precedence.
- What is Type Casting? Explain about different Type Conversions in details.

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- Explain about various Formatted and Un-formatted I/O functions in detail.
- Explain about different Control Structures in detail.
- Explain about if-statement in detail with suitable examples and flow charts.
- Explain about Switch statement in detail with suitable example and flow charts.
- Briefly explain the looping statements (or) iterative statements with syntax and flow charts.
- Explain about while in detail with suitable example.
- Explain about for loop in detail with suitable example.
- What is an Array? Explain about different types of arrays.
- Write about one dimensional arrays in detail with suitable example.
- Write a program to find the largest and smallest element in an array.
- Write about multi-dimensional arrays (or) two dimensional arrays in detail with suitable example.
- Write a program to demonstrate addition and subtraction of a matrix.
- Write a program on matrix multiplication.
- 14) What are Character Arrays (or) Strings in C? Explain different String handling functions with syntax and examples.
- 15. Discuss the functions of ctype.h.

### <u>UNIT – III</u>

- What is a Function? Explain the need and elements of functions.
- Explain about different Parameter Techniques (Call by Value & Call by Reference) with suitable examples.
- Explain about passing of onedimensional array to a function with example program.
- Explain about passing of multidimensional array to a function with example program.
- What are the different storage classes in C? Explain their usage with suitable examples.
- What is Recursion? Explain about Recursive Functions with suitable program.
- What is a Pointer? Explain the process of declaring and initializing pointers with example.



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- Explain in detail about the pointerww.FirstRanker.com arrays with example.
- 9. Discuss briefly about Dynamic Memory Allocation (or) Dynamic Memory Management with suitable examples.
- 10. Explain Command-line arguments with example

# UNIT – IV

- What is a Structure? Explain how structures are created (declaration, initialization and accessing) in C with example.
- 2. What is a Union? Explain how Unions are created (declaration, initialization and accessing) in C with example.
- 3. Explain about Array of Structures with an example program.
- Explain about Array of Unions with an example program.
- 5. Explain about Enumerated data type with example program.
- 6. What is a File in C? Explain how to use Files (or) File operations.
- Explain functions used to work with text files for reading and writing text. (File Input and Output Functions).
- Write a program to count the number of characters in a given text file.
- Discuss in detail about files of records.
- 10. What are the functions used for random access to files of records.

# 4 MARKS QUESTIONS (SHORT

## UNIT – I

- Explain the general structure of a C program
- Explain different types of program statements in C
- Algorithm
- 4. Data types
- 5. Tokens
- 6. Conditional (or Ternary) Operator with example
- 7. Relational Operators
- 8. Bitwise Operators
- 9. Constants
- 10. Type casting (or conversion)
- 11. RAM and ROM
- 12. Functions of OS

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- History of C
- Comments

# UNIT – II

- Flow-chart
- 2. Breas Continue
- What is an Array? Explain with example
- Un-sized Array
- 5. Character I/O Functions
- 6. Formatted I/O Functions
- Escape Sequences
- 8. Write a c program to find greatest of two numbers using if-else statement
- Do-while vs While loop

# UNIT – III

- Write a short note on Functions
- Call by value vs. Call by reference
- 3. Write a short note on Global vs. Local Variables
- 4. Inline Function
- Recursion
- Elements of function 6
- Return statement
- Scope & Life-time
- 9. Dynamic Memory Allocation
- 10. malloc() vs. calloc()
- 11. What is Memory Leak?

# UNIT – IV

- Structure vs. Union 1
- 2. Write a short note on Enumeration
- Explain various modes to open a file
- Functions used for random access the file
- File input functions
- File output functions

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