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12 MARKS QUESTIONS [LONG) W.FirstRanker.com

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UNIT - I

- 1. Explain the Generations of a Computer.
- 2. Explain various types or classifications of a computer.
- 3. What is Memory? Explain various Memory Devices (or) Memory Hierarchy (or) Types of Memories.
- 4. What is Computer? Explain the features (characteristics) and Limitations of a computer.
- 5. 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.
- 6. Explain the various input and output devices.
- 7. Explain various Secondary Storage Devices.
- 8. What is Software? Explain different types of software.
- 9. Explain various generations or classifications of programming languages.
- 10. Briefly explain the logical phases of a compiler model.
- 11. Discuss in detail the steps involved in developing a program.
- 12. Explain the steps involved in Software Development.
- 13. Define Algorithm. Explain the steps for algorithm development with an example.
- 14. What are the different ways of stating algorithms?
- 15. Define Flow-chart. Explain guidelines, advantages and limitations of using flow charts.
- 16. Explain the structure (or) various parts of a C-Program.
- 17. What is a Data Type? Explain different data types in detail.
- 18. What is an Operator? Explain different operators in C with suitable examples.
- 19. Discuss in detail about Expressions, Associativity and their Precedence.
- 20. What is Type Casting? Explain about different Type Conversions in details.

- 1. Explain about various Formatted and Un-formatted I/O functions in detail.
- 2. Explain about different Control Structures in detail.
- 3. Explain about if-statement in detail with suitable examples and flow charts.
- 4. Explain about Switch statement in detail with suitable example and flow charts.
- 5. Briefly explain the looping statements (or) iterative statements with syntax and flow charts.
- 6. Explain about while in detail with suitable example.
- 7. Explain about for loop in detail with suitable example.
- 8. What is an Array? Explain about different types of arrays.
- 9. Write about one dimensional arrays in detail with suitable example.
- 10. Write a program to find the largest and smallest element in an array.
- 11. Write about multi-dimensional arrays (or) two dimensional arrays in detail with suitable example.
- 12. Write a program to demonstrate addition and subtraction of a matrix.
- 13. 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.

UNIT - III

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



8. Explain in detail about the pointerwww.FirstRanker.com

www.FirstRanker.com arrays with example. UNIT – II

- 9. Discuss briefly about Dynamic Memory Allocation (or) Dynamic Memory Management with suitable examples.
- 10. Explain Command-line arguments with example

UNIT - IV

- 1. 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.
- 4. 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.
- 7. Explain functions used to work with text files for reading and writing text. (File Input and Output Functions).
- 8. Write a program to count the number of characters in a given text file.
- 9. 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

- 1. Explain the general structure of a C program
- 2. Explain different types of program statements in C
- 3. 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
- 13. History of C
- 14. Comments

1. Flow-chart

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

UNIT - III

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

UNIT – IV

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