

B.Sc. CS Entire Part – I Semester – II
Computer Science Paper – XV
DSC- Programming in ‘C’ Part-I

[8]

- 1) Which are the fundamental data types in C?
A) char B) int
C) float D) All of the above
- 2) Which is not a valid keyword in C language?
A) for B) while
C) do-while D) switch
- 3) How many keywords are there in C?
A) 31 B) 32
C) 62 D) 30
- 4) When an algorithm is written in the form of a programming language, it becomes a _____.
A) Flowchart B) Program
C) Pseudo code D) Syntax
- 5) The errors that can be pointed out by the compiler are?
A) syntax errors B) semantic error
C) logical error D) none of the above
- 6) The format identifier '%i' is also used for _____ data type.
A) char B) int
C) float D) double
- 7) The ----- provides pictorial representation of given problem.
A) Algorithm B) Flowchart
C) Pseudo code D) All of these
- 8) What is the extension of a C language source file?
A) .c B) .cpp
C) .c99 D) .h
- 9) Who is father of C Language?
A) Bjarne Stroustrup B) James A. Gosling
C) Dennis Ritchie D) Dr. E.F. Codd
- 10) _____ is a symbol used connects two symbols of flowchart.
A) Circle B) Rectangle
C) Diamond D) Arrow
- 11) An algorithm is _____.
A) Collection of symbols used to design a flowchart
B) A self-contained step-by-step set of operations to be performed in the given sequence
C) A set of instruction to be followed before choosing a programming language.
D) A help guide that instructs how to use a software.
- 12) C is a _____.
A) Low level language B) High level language
C) Medium level language D) None of the above
- 13) In the given loop construct, which one is executed only once always? for(exp1; exp2; exp3)
A) exp1 B) exp3

- C) exp1 and exp3 D) exp1, exp2 and exp3
- 14) What is the way to suddenly come out of or Quit any Loop in C Language?
A) continue; B) break;
C) stop; D) quit;
- 15) A program which translates a high-level language program into a machine language program is called
A) Compiler B) Interpreter
C) Both A and B D) none of the above
- 16) Which year C language is developed?
A) 1970 B) 1971
C) 1972 D) 1973
- 17) Which operator is used to compare two values?
A) Logical operator B) Relational operator
C) Assignment operator D) None of these
- 18) The operator '&' is used as
A) Logical AND B) Bitwise AND
C) Logical OR D) Bitwise OR
- 19) What is alternate name of conditional operator?
A) Comparison operator B) If-else Operator
C) Binary operator D) Ternary operator
- 20) To define the problem, we have to
A) Specify input requirements B) Specify output requirements
C) Specify processing requirements D) All of these
- 21) Identifying and removing errors from program is known as _____
A) Design B) Testing
C) Debugging D) Coding
- 22) _____ is a procedure or step by step process for solving a problem.
A) Algorithm B) Flowchart
C) Pseudocode D) All of these
- 23) The _____ provides pictorial representation of given problem.
A) Algorithm B) Flowchart
C) Pseudocode D) All of these
- 24) The _____ symbol is used at the beginning of a flow chart.
A) Terminal B) Rectangle
C) Diamond D) None of these
- 25) The _____ symbol is used to represent decision in flowchart.
A) Circle B) Rectangle
C) Diamond D) None of these
- 26) The _____ symbol is used to represent process in flowchart.
A) Circle B) Rectangle
C) Diamond D) None of these
- 27) _____ symbol is used to represent input and output operation in flowchart.
A) Circle B) Rectangle
C) Diamond D) Parallelogram
- 28) Which is correct with respect to the size of the data types?
A) char > int > float B) int > char > float
C) char < int < double D) double > char > int
- 29) What is the starting point of C program execution?
A) #include B) void main()
C) Opening curly braces '{' D) None of these
- 30) Which symbol ends a statement in C program?
A) . (full stop) B) ; (semicolon)
C) : (colon) D) } (curly braces)

- Q2) Attempt any two (each carries 8 marks):**

1. What are features of C Language?
2. Explain formatted input and output statement with examples.
3. Explain a general structure of C program with an example
4. What is an array? How a single dimension and two-dimension arrays are declared and initialized?
5. What are standard (formatted) Input/output or (scanf)/(printf) statements in C programming?
6. Explain different types of Loop statement (while, do while, for) with example?
7. What are the features of the C language?
8. Explain if, if-else, nested if-else and cascaded if-else with examples and syntax.
9. Explain basic data types available in C with the help of examples.
10. What is a token? What are different types of tokens available in C language? Explain.
11. Explain the different types of loops in C with syntax.

12. What is an array? How a single dimension and two dimension arrays are declared and initialized?
13. Write an algorithm and develop a C program that reads N integer numbers and arrange them in ascending order.
14. Explain string manipulation library functions with their syntaxes. Write a program to check whether a string is palindrome or not.
15. Write program to print multiplication table of given number.
16. What is an array? Explain Types array.

Q3) Attempt any four (each carries 4 marks):

1. What is Flowchart? Draw a flow chart to check given number is even or odd.
2. Explain Switch statement with syntax and Example.
3. Write a short note on flowchart.
4. Explain different components of Compilation process?
5. Define Vi Editor used in Linux operating system?
6. Explain documentation and its types?
7. Explain if, if-else with examples and syntax.
8. Explain formatted input statement with examples.
9. Explain formatted output statement with examples.
10. Explain any 2 string manipulation library functions with their syntaxes.
11. Write a program to check given number is positive or not
12. Explain While loop with examples and syntax.
13. Explain any two string manipulation library functions.
14. Explain for loop.
15. Differentiate between for loop and a while loop?
16. What is a preprocessor
17. Explain Single or one dimensional array with example?
18. Define GCC compiler?
19. What is mean by pseudocode?
20. Explain decision making statement (switch) in C program with example?
21. Show how break and continue statements are used in a C-program, with example.
22. Explain nested if-else and cascaded if-else with examples and syntax.
23. Explain: break and continue.
24. Explain nested if-else with examples and syntax.
25. What is algorithm? Write an algorithm to add two numbers.
26. Write short note on Variable.
27. Explain Datatypes in C.
28. Define Build-in Standard Library in C programming?
29. Explain two dimensional array with example?
30. What is mean by infinite loop?
