ASSIGNMENT 3

1. ″C language is a middle level language″. Explain this statement? Write down the importance of C.
2. Give classification of c character set. State the rules for identifiers.
3. What are the various types of operators used in C language? Give a table that shows their precedence and associatively.
4. What are operators? Describe unary, binary and ternary operators with examples.
5. What is Escape Sequence? Write any four-escape sequence with meaning and symbols.
6. What do you mean by macro expansion and file inclusion in C? explain with example.
7. What do you mean by precedence and associativity of an operator? Explain with suitable example.
8. Explain structure of C program with an appropriate example.
9. What are pre-processor directives? Explain constant and variables.
10. Define term "flowchart"?. Discuss about different symbols used in flowchart.
11. Define formatted and unformatted I/O functions. Write the syntax of following function:
    I.   Getchar()
    II.   Getche()
    III. Gets()
    IV.   Printf()
    V.   Scanf()
    VI.   Putchar()
12. What is difference between formatteI/O and unformatted I/O?
13. Write the various input unformatted function and describe any two.
14. Write the various output unformatted function and describe any two.
15. What is the purpose of the printf() function? How is it used within a C program? Compare with the putchar().
16. What is the purpose of the scanf() function? How is it used within a C program? Compare with the getchar()
17. What is a control statement? Differentiate between do while and while statement with the help of flow charts.
18. Explain nested if-else statement execution
19. Write syntax for nested if-else statement
20. Write algorithm, flowchart and program to input a number to check it is Armstrong or not.
21. What is control statement? Describe different control statement
22. Describe the different types of looping statement used in C with flow chart.

23. Describe the application of break and continue in C-programming. Explain with examples

24. Write a menu driven program using switch statement having the following options.

    I.   Addition

    II.   Subtraction

    III.   Multiplication

25. Explain for loop and if-else statement with its syntax and flowchart.

26. Write a program to check the given number is prime or not.

27. Write a program to check number is palindrome or not.

28. What are keywords in C? Explain basic data types along with their qualifiers.

29. Give classification of constants and explain them.

30. What are variables and how are they classified?