

Question Bank – PT1- PRC198912

1. Define Pseudocode, Algorithm and Flowchart.
2. Explain all flowchart symbols with diagram.
3. Write an algorithm for given problem statement.
4. Draw flowchart for given problem statement.
5. Explain datatypes in C Language.
6. Explain Arithmetic/Relational/Logical/conditional/increment-decrement/assignment/special [sizeof, comma] operators with suitable example.
7. What is constant? Explain purpose of constant using one example.
8. Describe basic structure of C programs using suitable diagram.
9. Explain process of executing C programs using flowchart.
10. Give importance of C language. Why and when do we use #include in C programming?
11. Why do we need to use comments in the C program? With examples, explain types of comments.
12. Define Variable. Give suitable example and discuss rules/ conditions for variable declaration.
13. Explain in brief: (1). Token (2). Keyword & Identifier (3). Backslash constant
14. Explain arithmetic expression evaluation with rules and precedence.
15. Describe formatted input (scanf) and formatted output (printf) with syntax and examples.
16. Which are the different forms of if statement? Explain using suitable diagram and example.
17. Explain goto statement using suitable example.
18. Explain switch case statement using suitable example.
19. Explain type of programming languages. State their advantages & disadvantages also.

PROGRAMS PROBLEM STATEMENTS

1. Write a program for calculating Simple Interest.
2. Write a program to find the roots of Quadratic equation using if-else.
3. Write a program to find the greatest out of three numbers using Nested-if.
4. Write a program to check if alphabet is vowel or consonant.
5. Write a program to check if year is leap year using else-if ladder.
6. Write a program to check similarity of alphabet using conditional operator.
7. C Program to Print Day Name of Week using Else-If ladder.
8. Write a program for calculating the percentage of 3 subjects and display the first, second, third class, failed – categories using switch case statements.
9. Write a C program to input basic salary of an employee and calculate gross salary according to given conditions.
Basic Salary \leq 10000 : HRA = 20%, DA = 80%
Basic Salary is between 10001 to 20000 : HRA = 25%, DA = 90%
Basic Salary \geq 20001 : HRA = 30%, DA = 95%
10. Write a program to check if number is even or odd using switch case.
11. Write a menu driven program using switch case to find the area of circle, rectangle & triangle. (Make use of at least one constant).