Note :   Answer all questions
         Assume suitable missing data, if any.
         Give suitable examples, wherever necessary

Q1. (a) Explain the difference between Algorithm, flowchart and computer
    program. Draw flowchart to print sum of 10 natural numbers.   4

    (b) What is an array. How array are initialised.   2

Q2. (a) Explain different data modifiers/qualifiers in detail. What is the effect
    of these on size and value range of integer data type?   3

    (b) Differentiate between formal, actual and dummy arguments. Give
    suitable examples.   3

Q3. (a) Find the errors, if any (where a is int array, x is char array, i, j are int.).
    Justify.   2
    (i)   int a[]   (ii) int i =23p   (iii)   int i = 23L
    (iv) while(i<2){ ..}

    (b) Write a program using recursion to print the n elements of a Fibonacci
    series. What is the depth of this process. Explain the difference between
    iterative and recursive program .   4

Q4. (a) Identify following tokens   2
    (i)   main   (ii) printf   (iii) 50L   (iv) "a"

    (b) What is the difference between library function, user defined function,
    pre defined function.   Explain the purpose of stdio.h file.   4

Q5.   Write Short notes   6
    (a) scanf()   (b) Assignment operators   (c) Control structures