Time: 3 hrs   Max. Marks: 80

N.B.:(1) **Question No 1 is Compulsory.**
      (2) **Attempt any three questions out of the remaining five.**
      (3) **All questions carry equal marks.**
      (4) **Assume suitable data, if required and state it clearly.**

Q.1	Attempt the following	**[20]**
a	Write a C program to convert binary number into decimal number.	**5**
b	What is the concept of Array in C?	**5**
c	Write a C program to reverse the digits of given number.(eg.If given number is 479 then its reverse is 974)	**5**
d	Differentiate between Structure and Union.	**5**
Q.2	Solve any Two	**[20]**
a	Write a program to find the second largest element of an array.	**10**
b	Explain any five string functions with example.	**10**
B	Write a C program to display following pattern using nested loops.	**10**

4444
333
22
1

Q.3	Solve any Two	**[20]**
a	What is recursion? Write a program using recursion to display Fibonacci series using recursion.	**10**
b	Explain Multidimensional array with example	**10**
c	Write an algorithm for solving quadratic equation.	**10**
Q.4	Solve any Two	**[20]**
a	Explain call by value and call by reference with example	**10**
b	What is Flowchart? Draw all basic symbols of flowchart and write its purpose.	**10**
c	Explain ant two types of operators in C	**10**
Q.5	Solve any Two	**[20]**
a	Write a C program to count Lower Case, Upper Case, Numbers and Spaces from a given statement.	**10**
b	Explain switch statement.	**10**
c	Explain of C program construct, Explain use of Header File. What if we do not use statement #include <stdio.h>.	**10**
Q.6	Write short note on	**[20]**
a	Control structures in C	**5**
b	Formatted i/o statement	**5**
c	Files in C	**5**
d	Applications of C programming.	**5**

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