

National University
B.Sc(Hons) in Computer Science & Engineering(CSE)
Part-I, 1st Semester Examination-2022
CSE-510202(Structured Programming Language Lab)

Time: 3 Hours

Full Marks: 40

[Solve any one experiment from the following each section.]

Section-1

1. Write a C program to find area and perimeter of a triangle (three sides of triangle are given).
2. Write a C program to find area and perimeter of a rectangle.
3. Write a C program to find area and circumference of a circle (Use π as a symbolic constant).
4. Write a C program to convert the given temperature in Fahrenheit to Celsius.
5. Write a C program to determine whether a number is odd or even.
6. Write a C program to determine the largest element among three numbers.
7. Write a C program to find all possible roots of a quadratic equation.
8. Write a C program to find the factorial of an integer.
9. Write a C program to find first n Fibonacci numbers.
10. Write a C Program to find sum of series :-
 $1/1! + 2/2! + 3/3! + \dots + 7/7!$

Section-2

1. Write a C program display all elements of an array and also display sum of elements of that array.
2. Write a C program to find out largest element from an array.
3. Write a C program to search an element from an array.
4. Write a C program to find sum of two matrices of size 3×3 .
5. Write a C program to determine whether a string is palindrome or not.
6. Write a C program to perform all basic operations on string.
7. Write a C program using pointers to read an array of integers and print its elements in reverse order.
8. Write a C program to record student's information according to their merit position.
9. Write a C program to read data from keyboard write it to a file called INPUT, again read the same data from the INPUT file and display it on the screen.
10. Write a C program to copy/append one file into another.

Marks Distribution:

i)	Algorithm	: 10
ii)	Source Code	: 10
iii)	Implementation and Result	: 10
iv)	Viva	: 10
Total		: 40

MD *Lulona* *Amir* *Abul*
CH