

# National University, Gazipur

B.Sc(Hons) in CSE, Part-2, 3rd Semester Examination, 2023

CSE-520204 (Object Oriented Programming Lab))

Time: 3 Hours

Full Marks: 40

*(Perform any 02 (Two) of the following experiments)*

1. Write a C++/Java program to enter any number and find its factorial using constructor.
2. Write a C++/Java program to swap two numbers declared in two different classes using friend function.
3. Write a C++/Java program to find the greatest of three given numbers in three different classes using friend function.
4. Write a C++/Java program for calculating the area of triangle, circle and rectangle using the concept of function overloading.
5. Write a C++/Java program to perform addition of two complex numbers using constructor overloading.
6. Create a class TIME with members hours, minutes and seconds. Take input, add two-time objects passing objects to function and display result.
7. Create a class student which has data members as name, semester, roll no, section and marks in five subjects. Write a C++/Java program to display all information of the students with total marks.
8. Write a C++/Java program to find the square and cube of a number read from keyboard. (Demonstrate the concept of inheritance)
9. Write a C++/Java program to append the contents of a file into another.
10. Write a C++/Java program to read a set of lines from the keyboard and to store it in a specific file.

## Marks Distribution:

Source Code :20

Result :10

Viva-Voce :10

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Total :40