

[illegible]

**B.Tech. || CSE || 3<sup>rd</sup> Sem**

Subject Code: BTCS305A | 305

Paper ID: M18

Paper ID: M118  
(2011 batch onwards) Max Marks: 60

- All questions are compulsory

Q. 1. Short-Answer Questions:

- What is Object Oriented Programming?
- Define Class and Object.
- Differentiate between While and Do-While loop.
- What is a Pointer variable?
- Differentiate between Function Overloading and Function Overriding?
- What is Static and Dynamic Memory allocation?
- What is a parametrized constructor? Give one example.
- What is a Generic Function?
- What is a destructor?
- What is Data Hiding? How it is achieved in C++?

Q. 2. Explain various features of Object Oriented Programming?

COI

OR

Write a function to find the sum of first n odd numbers.

COI

- Q. 3. Write a program to demonstrate the concept of Function Overloading.

CO<sub>2</sub>

OR

Write a program to add two complex numbers using operator overloading

CO2

- Q. 4. What is a Friend Function? Why it is used?

CO3

OR

Explain the different ways to access private members outside a Class.

CO3

- Q. 5. Write a program to copy the content of one file to another using Command Line Arguments?

CO4

OR

Define a class named TIME having 3 data members namely hours, minutes and seconds. Write down its constructors and destructors. Write a function to add two TIME objects.

CO4

- Q. 6. What is a class template? Write one Generic Function to add two numbers.

CO5

OR

What is Exception Handling? How is it implemented in C++?

CO5