OBJECT ORIRNTED PROGRAMMING USING C++

(BCA-S201T)

Section-A

1. **Attempt any *three* of the following:** (2 X 3 = 6 Marks)

   a. What is the use delete and new operator?
   b. What do you understand by Abstraction in OOPs?
   c. What is abstract data type in C++?
   d. How is garbage collection works in C++?
   e. What is the concept of Template?

Section-B

2. **Attempt any *three* questions from this section:** (4 X 3 = 12 Marks)

   a. Explain the working and use of constructor and destructor with example code in C++.
   b. How abstract class is is differ from normal class. Write a sample code which shows the creation of abstract class object and function calling from it.
   c. How exceptions are handed in C++. Write sample code?
   d. Why friend functions are introduced in C++? Explain with sample code in which two classes are having friend function.
   e. How is polymorphism helpful in OOPs and explain its types with example in C++.

Section-C

3. **Attempt any *two* questions from this section:** (6 X 2 = 12 Marks)

   a. Write a C++ program to copy the all content of file into another file in uppercase using file handling.
   b. When have we needed of inheritance in OOPs? Explain its types with sample code.
   c. Describe operator overloading? Which operators cannot be overloaded in C++. Write a C++ program to overload binary operator "-".