

**B.Sc. (Information Technology) - 2nd Sem.**

**(Old sylb 2017-18)**

**(2721)**

**Paper-IV: Introduction to Programming-C++**

**Time Allowed: 2 hrs.**

**Max. Marks: 75**

**Note: There are EIGHT questions of equal marks. Candidates are required to attempt any FOUR questions.**

1. What are advantages of Object-Oriented Programming Methodology as compared to traditional methodologies?
2. What is Polymorphism? What is difference between method overloading and method overriding? Give an example.
3. Which are various types of constructors? Give an example of each.
4. What is difference between class and object? What is use of static members in a class? What is Abstract base class?
5. Write a program to calculate area of rectangle using function overloading, sides of rectangle may be int or float.
6. What is need of operator overloading? Which are different ways to overload operators?
7. What is Inheritance? Which are different types of Inheritance?
8. What is friend function? What is virtual function? Give an example of both.

\*\*\*\*\*

**6634(2721)100**