

2031
B.A./B.Sc. (General) Third Semester
Computer Application
CA-05: Programming in C++

Time allowed: 3 Hours

Max. Marks: 30

NOTE: Attempt five questions in all, including Question No. IX (Unit-V) which is compulsory and selecting one question each from Unit I - IV.

x-x-x

UNIT - I

- I. Explain the basic concepts of Object Oriented Programming Concept. (6)
- II. Can we define the member functions outside the class? If yes, then explain with example. (6)

UNIT - II

- III. a) Explain the concept of Constructors and destructors in C++. (6)
b) What is Friend function Explain the working of friend function between two classes with example. (2x3)
- IV. How the objects are passed as function arguments. Explain its types with example. (6)

UNIT - III

- V. What is Inheritance? Explain multiple inheritance with example. (6)
- VI. Explain Operator Overloading with the help of example. How is it different Function Overloading? (6)

UNIT - IV

- VII. Explain various unformatted functions in C++. Explain the working of each function. (6)
- VIII. Explain various manipulation operators used in C++ for formatting output with suitable example. (6)

UNIT - V

- IX. Describe the following with suitable example :-
 - a) Parameterized Constructor
 - b) Scope Resolution
 - c) Virtual Function
 - d) Encapsulation(4x1½)

x-x-x