

BCA(13-15)JL-21
PROGRAMMING IN 'C++'
Paper-BCA-361

1905

Time Allowed : 3 Hours]

[Maximum Marks : 80

Note : Attempt **five** questions in all, selecting **one** question from each Unit.
Question No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. (i) What is Dynamic binding? 4
- (ii) Differentiate between Binary and Text files. 4
- (iii) How Generic programming is implemented in C++? 4
- (iv) How Explicit type Conversion is implemented? 4

UNIT-I

2. What is the role of Constructor and Destuctor in Inheritance? Explain with example. 16
3. Why do you declare members of Base class as protected? Can private members of Base class be accessible in Derived class? Explain with the help of example. 16

UNIT-II

4. What is the use of Pure virtual function? Explain the concept of Virtual functions with suitable example. 16
5. What is the use of Polymorphism feature in C++? Explain runtime Polymorphism using suitable example. 16

UNIT-III

6. What is an Exception? When do we use multiple catch handlers? Explain with the help of suitable example. 16
7. (a) What is a Class template? Explain its syntax using suitable example.
(b) How is the function template Overloaded? 16

UNIT-IV

8. Write short notes on the following : 16
- (a) Use of eof function. (b) get ()
- (c) put () (d) Opening files in Multiple modes.
9. Write a program to read Student record such as Name, Sex, Roll number, Height and Weight from a file and to display : 16
- (a) List of entire Database. (b) to update a record.
- (c) to display only particular record. (d) to delete a record.