

Roll No. : 371593

Total No. of Pages : 3

BCA-206

B.C.A. IInd Year Examination, 2022

OBJECT ORIENTED PROGRAMMING USING C++
Paper-VI

Time Allowed : 1½ Hours

Maximum Marks : 100

Part-A

[Marks : 30]

Note :- Answer all questions (50 words each). All questions carry equal marks.

Part-B

[Marks : 70]

Note :- Answer any two questions (250 words each). All questions carry equal marks.

Part-A

1. (i) What are the different data types present in C++ ?
- (ii) What is an Inline Function ?
- (iii) What is the relation between class and object in C++ ?

- (iv) What is Operator Overloading ?
- (v) Differentiate between base and derived class.
- (vi) Compare compile time polymorphism and runtime polymorphism.
- (vii) What is Friend Class ?
- (viii) List C++ access specifiers.
- (ix) Define Inline Function.
- (x) What is a Predefined Exception ?

Part-B

- 2. Write a C++ program to illustrate the concept of default arguments.
- 3. What are different types of scope of variables used in function ?
- 4. What is Function Overloading ? Write a C++ program to find the area of geometrical shapes using the same.
- 5. Discuss different types of constructor available in C++ with suitable example.
- 6. Explain the difference between virtual functions and pure virtual functions.

7. Describe the use of inheritance in C++. Also discuss in brief about any *two* types of inheritance with the help of example.
8. Write a C++ program to Overload the Binary Operator to Get :
 - (a) Sum of Two Complex Numbers
 - (b) Multiply of two Complex Numbers
9. Describe about :
 - (a) Abstraction
 - (b) Encapsulation