BCA SEM – III Examination

Paper No. – 302

Object Oriented Programming using C++

Time : 3 Hr.   Max. Marks : 70

Q:1.(A) Explain various data types in C++   (7)

Q:1.(B) Explain difference between OOP and POP.   (7)

OR

Q:1.(A) Explain Object Oriented Programming Concepts in detail.   (7)

Q:1.(B) Differentiate between Private, Public and Protected data members of the class   (7)
         using examples.

Q:2.(A) Write a short not on Constructors.   (7)

Q:2.(B) Explain the following: 1. Function Overloading 2.Inline Functions   (7)

OR

Q:2.(A) Mention about (with example program)   (7)
         (i). Static Member Functions
         (ii). const Member Functions

Q:2.(B) Define friend function. Write a program that shows the use of friend function.   (7)

Q:3.(A) What is operator Overloading? List the various restrictions with operator   (7)
         overloading.

Q:3.(B) Explain the operators used in C++ but not in C.   (7)

OR

Q:3.(A) Demonstrate unary and binary operator overloading.   (7)

Q:3.(B) Explain basic type to class type conversion.   (7)

Q:4.(A) Write a short note on Inheritance.   (7)

Q:4.(B) Explain Virtual Base Class.   (7)

OR

Q:4.(A) Write a short note on Polymorphism.   (7)

Q:4.(B) Explain the working of virtual functions.   (7)

Q:5.(A) Explain any ten c++ functions, which help to manage file operations.   (7)

Q:5.(B) What do you mean by command line arguments? Explain in detail.   (7)

OR

Q:5.(A) Explain C++ stream classes.   (7)

Q:5.(B) What is Exception Handling and how is it implemented in C++? Elaborate it with   (7)
         the help of an example.