BCA (2014 to 2018)/B.Sc. (IT) (2015 & Onward)
(Sem.–2)
OOPS USING C++
Subject Code : BSBC-203
M.Code : 10052

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTION TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.**

SECTION-A

1) **Answer briefly :**

a) What are characteristics of object oriented languages?

b) Differentiate between Structures and Unions.

c) Give the concept of Array within a class with suitable example.

d) When inline functions are used?

e) What is the benefit of copy constructor?

f) Differentiate between privately derived and publicly derived single inheritance.

g) List the operators that cannot be overloaded.

h) What is early Binding?

i) How to read and write character from a file in C++?

j) What is this pointer? Give suitable example.

2) What is object oriented programming? Explain any five characteristics of object oriented programming languages.

3) What is the constructor? List some of the special properties of the constructor functions. Describe the importance of destructor. Explain the use of destructor with the help of an example.

4) What are the different forms of inheritance? Give examples of each. Describe the syntax of single inheritance in C ++.

5) Given a class Complex with real and imaginary part as data members. Write a C++ program to overload plus operator and minus operator to add and subtract two real numbers respectively.

6) What is the virtual function? Why do we need virtual functions? When do we make virtual function pure? Give suitable example of pure virtual function.

7) What is static data member and static member function? Write a C++ program demonstrating the use of it.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.