

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

BCA (2013 & Onward)/B.Sc. (IT) (2015 & Onward)  
(Sem.-2)

**OOPS USING C++**

Subject Code : BSBC/BSIT-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) Explain various data types in C++.
- b) What is the major differentiate between C and C++'?
- c) Discuss structure initialization.
- d) What are the benefits of pointers?
- e) Define concept of data hiding.
- f) Explain inline functions.
- g) Write concept of call by reference.
- h) What is scope resolution operator?
- i) Discuss operator overloading.
- j) Write the importance of polymorphism.

## SECTION-B

2. a) Write at least five advantages of object oriented programming.  
b) Give any example showing classes and objects in C++.
3. Discuss various conditional and iterative statements in object oriented programming.
4. a) Define Binary Operator Loading in C++.  
b) Give the concept of Pure Virtual Function.
5. Explain the need of constructors. Write the functioning of copy constructor with example.
6. What is Inheritance? What are the different visibility modes observed while deriving a class from a base class?
7. Discuss the concept of file input and output functions using File handling in C++.

**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.**