

Roll No. 

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Total No. of Pages : 02

Total No. of Questions : 07

**B.Sc.(CS) (2013 & Onwards) (Sem.-2)**  
**OBJECT ORIENTED PROGRAMMING IN C++**  
Subject Code : BCS-205  
M.Code : 71510

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) Difference between class and an object.
- b) What are structures?
- c) Define Encapsulation.
- d) List types of operators.
- e) What is friend function?
- f) Discuss the use of pointers.
- g) What are multidimensional arrays?
- h) What is static and dynamic binding?
- i) Discuss function overloading.
- j) What are streams in C++?

### SECTION-B

2. What is object oriented programming? Explain any five characteristics of object oriented programming languages.
3. What are the differences between public, private and protected variables?
4.
  - a) Discuss the rules of constructors.
  - b) What is unary and binary operator overloading?
5. Differentiate between Call by Value and Call by Reference with the help of examples.
6. Define Inheritance. Explain single Inheritance and multiple inheritances with the help of examples.
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.**