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**MCA DUAL DEGREE
(SEM IV) THEORY EXAMINATION 2018-19
OBJECT ORIENTED PROGRAMMING USING C++**

Time: 3 Hours**Total Marks: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

- 1. Attempt all questions in brief. 2 x 10 = 20**
- (a) Define template?
 - (b) What do you meant by Private, Public, and Protected Access Modifier?
 - (c) Give the difference virtual function and operator overloading?
 - (d) Define CIN and COUT function?
 - (e) What do you mean by constructor and its features?
 - (f) Define Garbage Collection?
 - (g) What do you meant by Abstract Class and Meta Class?
 - (h) Define Encapsulation?
 - (i) What do you meant by Dynamic Memory Allocation?
 - (j) Define Namespace and Generic Class?

SECTION B

- 2. Attempt any three of the following: 10 x 3 = 30**
- (a) Explain the Object Oriented approaches and various features of OOPs?
 - (b) What do you meant Default Constructor with example?
 - (c) Explain function overloading with example?
 - (d) What do you meant by Multiple Inheritance with example?
 - (e) Explain the Stream and files in C++?

SECTION C

- 3. Attempt any one part of the following: 10 x 1 = 10**
- (a) What do you meant by Call by Value and Call by Reference with example?
 - (b) Give the difference between Object and Class with example?
- 4. Attempt any one part of the following: 10 x 1 = 10**
- (a) Explain the various types of destructors with example?
 - (b) What do you meant by constructor overloading with example?
- 5. Attempt any one part of the following: 10 x 1 = 10**
- (a) What do you mean by Function Overriding with example?
 - (b) Write a program for Binary Operator Overloading?
- 6. Attempt any one part of the following: 10 x 1 = 10**
- (a) Write a program for Multi-level Inheritance?
 - (b) What do you meant by Polymorphism with example?
- 7. Attempt any one part of the following: 10 x 1 = 10**
- (a) Write a program for Generic Function?
 - (b) Define the concept of Try and Catch block in C++ with the help of proper example?