

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

MCA (2015 to 2019) (Sem.-1)
OBJECT ORIENTED PROGRAMMING IN C++
Subject Code : MCA-102
M.Code : 72708

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.
2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.

SECTION-A

1. Discuss any five characteristics of Object Oriented Programming.
2. a) Describe the working of breaking control statement.
b) Explain various operators available in C++.

SECTION-B

3. a) What is recursion? Explain by taking example.
b) Explain the working of Union.
4. Write a program for demonstrating functions and arrays.

SECTION-C

5. a) Describe the concept of dynamic memory allocation by taking an example.
b) What are nested classes? Discuss the use of nested classes in OOP.
6. What is meant by multiple-Inheritance? Write a code snippet in C++ demonstrating multiple-inheritance.

SECTION-D

7. What is meant by operator overloading? Why is it required in OOP? Explain.
8.
 - a) Define Virtual Function.
 - b) Discuss file handling using IO streams.

SECTION-E

9. **Write briefly :**
 - a) Comment on iostream.h
 - b) Define the term abstraction.
 - c) What is meant by data hiding?
 - d) Define the term enumeration.
 - e) What are destructors?
 - f) Discuss briefly about late binding.
 - g) What is single inheritance?
 - h) What is the use of keyword “Throw”?
 - i) “*Can constructor be overloaded*”? Comment.
 - j) What is the use of keyword “*Static*”?

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.