B.Sc. (IT)    (Sem.–2)

# OBJECT ORIENTED PROGRAMMING USING C++

### Subject Code : UGCA-1909
### M.Code : 77656
### Date of Examination : 14-07-22

Time : 3 Hrs.                                                                    Max. Marks : 60

**INSTRUCTIONS 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 students have to attempt any FOUR questions.

## SECTION-A

1. **Write briefly :**

   a) Write any two basic feature of OOP.

   b) Differentiate between compiling and executing C++ program.

   c) Write the syntax for declaring class and object.

   d) What is meant by array of objects?

   e) Define constructor.

   f) Discuss briefly the use of inheritance.

   g) What is meant by overloading?

   h) Why polymorphism is required in C++?

   i) What is meant by an abstract class?

   j) Write the modes of opening a file.

## SECTION-B

2. Differentiate between Procedure Oriented and Object Oriented programming.

3. a) What are member functions? Explain.

   b) What are access-specifiers? Explain.

4. What are default constructors? Write a C++ program to demonstrate concept of constructors.

5. What is meant by multiple inheritance? Write a code snippet to justify multiple inheritance.

6. What is the importance of operator overloading? Write a C++ code to demonstrate the concept of unary operator overloading.

7. What is meant by file handling in C++? Explain reading and writing a file using C++program.

**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.**