

Roll No.

Total No. of Pages : 02

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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.**