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Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem.-2)
OBJECT ORIENTED PROGRAMMING USING C++
Subject Code : UGCA-1909
M.Code : 77417
Date of Examination : 23-11-2023

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. Explain :

- a) What is the basic structure of a C++program?
- b) What are the steps involved in execution of a C++program?
- c) What is difference between procedural and object oriented programming language?
- d) Differentiate between Private and Protected access specifiers.
- e) What is a destructor?
- f) What is difference between multiple and multilevel inheritance?
- g) Which operators of C++ cannot be overloaded?
- h) What do you mean by pure virtual function?
- i) What is binding and its types in C++?
- j) What are the various methods of opening files in C++?

SECTION-B

2. What is Object Oriented Programming? Explain in detail the different features of Object Oriented Programming.
3. What is a class? What is the relation between an object and a class? Write a program which shows how to define a class, how to access member functions and how to create and access objects in C++?
4. What do you mean by constructor? What are various types of constructors? Discuss in detail.
5. Define Inheritance. What are the various types of inheritances? Explain giving suitable examples.
6. What do you mean by operator overloading? How can you overload unary and binary operators? Explain giving suitable examples.
7. **Explain the following :**
 - a) Late binding
 - b) Virtual functions
 - c) Abstract class
 - d) Reading and writing a File.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.