

Roll No.

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 : 05-06-2023

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. Write Briefly :

- a) Explain with suitable example, syntax of for loop in C++.
- b) Define member functions.
- c) What is late binding?
- d) What is the need of overloading operators and functions?
- e) Explain data abstraction and encapsulation.
- f) What is class and instance?
- g) Write difference between object and classes.
- h) Write an example of multiple inheritance.
- i) How to open a file?
- j) State use of new operator.

SECTION-B

2. a) Write down the example to overload unary and binary operators in C++.
b) Explain use of pointer in C++.
3. Compare procedural programming with object oriented programming for what type of application is the procedural programming is suitable and for what type OOP is suitable? Justify your answer.
4. Explain public, private and protected access specifiers and show their visibility when they are inherited as public, private and protected.
5. Illustrate the concept of inheritance by defining three classes student, exam and result, where result is inherited from exam and exam is inherited from student. Write possible constructors to initialize the values. Write a main function to test the constructor execution by creating objects.
6. What does Overloading means in C++? What are different forms of overloading? Give an example of each.
7. What are various types of files? What are the various modes in which a file can be opened? Explain by giving examples.

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.