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Total No. of Pages : 02

Total No. of Questions : 07

B.Sc. IT (Sem-2)
OBJECT ORIENTED PROGRAMMING USING C++
Subject Code : UGCA-1909
M.Code : 77656
Date of Examination: 30-05-2023

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) What is Compiler?
- b) Define member functions.
- c) What is constructor?
- d) What is the need of overloading operators and functions?
- e) Explain Data abstraction and encapsulation.
- f) What is This pointer?
- g) Write difference between Object and Classes.
- h) Write an example of hybrid inheritance.
- i) How to open a file?
- j) Define class.

SECTION-B

2. a) Write down the example to overload unary and binary operators in C++.
b) Explain the use of pointer in C++.
3. Compare Procedural Programming with Object Oriented Programming for what type of application is the procedural programming 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. What do you mean by type conversion? Give an example of basic to object conversion.
6. What does inheritance means in C++? What are the different forms of inheritance? Give an example of each.
7. How to initialize objects dynamically? Write an example. Write a C++ program demonstrating use of the pure virtual function with the use of base and derived classes.

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.