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Total No. of Pages : 02

Total No. of Questions : 09

**M.Sc.(IT/PGDCA) (Sem.-2)**  
**OBJECT ORIENTED PROGRAMMING USING C++**  
Subject Code : PGCA-1911  
M.Code : 77840  
Date of Examination : 08-07-22

Time : 3 Hrs.

Max. Marks : 70

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying TEN marks each.
4. Select atleast TWO questions from SECTION - B & C.

**SECTION-A**

1. Write briefly :
  - a. What is a scope resolution operator?
  - b. What are the rules of naming the identifiers in C++?
  - c. What are keywords? List any five keywords used in C++.
  - d. Differentiate between assignment and equality operators.
  - e. Discuss the concepts of inbuilt and user defined data types.
  - f. Briefly explain the concept of Abstract Class.
  - g. What is the use of *this* keyword in C++?
  - h. What do you mean by static class members?
  - i. What is a constructor? What are its properties?
  - j. What is Polymorphism? How is it implemented in C++?

**SECTION-B**

2. Explain the features of Object Oriented Programming. How is it different from Procedural Programming Languages?
3. Write a program in C++ to read n numbers (n is to be entered by the user) and to display the sum and average of these n numbers.

4. Explain with examples the different conditional and iterative statements used in C++.
5. Write a program in C++ to find sum of two matrices.

### **SECTION-C**

6. Explain with the help of examples the different Access Specifiers used in C++.
7. 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++.
8. What is inheritance? Explain with example how to inherit a class in C++. Also show in what order the constructors are called when an object of a derived class is created.
9. What is a File? What are the steps involved in manipulating a file in a C++ programs?

**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.**