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Total No. of Pages : 02

Total No. of Questions : 07

**BCA/DEP/DCA/B.Sc. (Information Technology) (Sem.-2)**

**OBJECT ORIENTED PROGRAMMING USING C++**

**Subject Code : BSBC-203**

**M.Code : 10052**

**Date of Examination : 08-07-22**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTION 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 a student has to attempt any **FOUR** questions.

**SECTION-A**

**1) Answer briefly :**

- a) What are different access specifiers in C++?
- b) What are Local and Global variables?
- c) What is Dynamic Memory Allocation?
- d) Write down the syntax to create a class and object.
- e) What is Pure Virtual Function?
- f) Write the procedure to open and close a file in C++.
- g) What is stream in C++?
- h) Write a C++ program to implement the concept of nested class.
- i) What is destructor?
- j) What is the purpose of nested structure?

## SECTION-B

- 2)
  - a) Why it is necessary to include header files at the beginning of the program? What role do they play?
  - b) Write a note on Data Hiding.
- 3) Define a constructor. How will you overload a constructor? Explain with example.
- 4) What is Inheritance? What are its different types? Also write C++ program to implement Multiple Inheritance.
- 5) Write notes on the following :
  - a) Nested structure
  - b) Structure with pointer
- 6) What is Polymorphism? What is its need? Write C++ program to implement the concept of polymorphism.
- 7) What is Function? Name its different categories. Write a program to pass arguments to a function using
  - a) Passing by Address
  - b) Passing by Reference

**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.**