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Total No. of Questions : 08

BCA/B.Sc (IT) (Sem.–2)
OOPS USING C++
Subject Code : BSBC-203
M.Code : 10052
Date of Examination : 06-07-21

Time : 2 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

 1.   **Attempt any FIVE question(s), each question carries 12 marks.**

1.   How Object-Oriented approach is helpful for finding solutions to various problems using C++? Explain various C++ components with example.

2.   Why there is a need for Class? Why Class can't call itself to its members and methods? Explain various forms of member functions with example. Write a program that defines two members and two methods and each method call by different object.

3.   If a copy constructor is not available then what will be the drawback? Explain this concept with a suitable example. What is dynamic initialization?

4.   Write down the difference between method Overloading and Operator Overloading? Explain various rules for it. Write a program using operator overloading by taking the concept of ++(x).

5.   Explain and give a suitable example to justify your answer:

      1) Data hiding and Incapsulation

      2) Use of Pure Virtual functions

6.   While inheritance, we face a problem when we inherit the same method from two different classes. What is it? How it is removed? After Single Level, Multi-Level, Multiple, Hierarchical, why Hybrid inheritance is used? Write down its importance and explain it with a suitable example.

7.   Explain Function, Virtual Function, and Pure Virtual Function? While working with inheritance, I would like to hide one of the methods of the base class that can't be reused in the derived Class. For this, which criteria are to be used and explain it with a suitable example?

8.   Create a Text file name "Covid-19", and save content that is "STAY HOME AND STAY SAFE". Now create a C++ program to copy its contents and execute using C++.

<u>Note</u>: Any student found attempting answer sheet from any other person(s), using incriminating material or involved in any wrong activity reported by evaluator shall be treated under UMC provisions.

Student found sharing the question paper(s)/answer sheet on digital media or with any other person or any organization/institution shall also be treated under UMC.

Any student found making any change/addition/modification in contents of scanned copy of answer sheet and original answer sheet, shall be covered under UMC provisions.