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MCA (2015 to 2018)   (Sem.–1)
OBJECT ORIENTED PROGRAMMING IN C++
Subject Code : MCA-102
M.Code : 72708

Time : 2 Hrs.   Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :

1.   Attempt any FIVE question(s), each question carries 6 marks.

1.   What is classes and what are its various types of members? Give relevant examples to explain.

2.   Write a class to represent a vector (a series of float values). Include member functions to perform the following tasks :

      a) To create the vector

      b) To modify the value of a given element

      c) To multiply by a scalar value

      d) To display the vector in the form (10, 20, 30,...) Write a program to test your class.

3.   What is a constructor and destructor? What is the use of default & copy constructors? Is a constructor mandatory for a Class.? Explain by giving examples in each case.

4.   What are the various bit wise operators? Explain with example.

5.   What do you understand by inheritance? Give its various types and access mechanisms.

6.   Explain how base class member functions can be invoked in a derived class if the derived class also has a member function with the same name.

7.   Write a program in C++ to overload the +, –, ×, % operator to find the addition, subtraction, multiplication and division of Complex numbers.

8.   Write a program to copy the content of a data file to another file. Make use of the exception handling conditions also.

<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.

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