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Roll No..

MCA-303
MCA. III Semester
Examination, June 2017
Object Oriented Methodology & C++

Time : Three Hours

Maximum Marks : 70

Note: i) Answer any five questions out of eight questions.
ii) All questions carry equal marks.

1. Write a C++ program to add two distance such as (10 feet 5 inches and 12 feet 7 inches) using concept of constructor overloading.

2. Write a class to keep track of accounts in a bank. Also provide suitable constructor.

3. Write a program to overload postfix unary increment operator.

4. Explain different types of inheritance with suitable example.

5. Write a C++ program to create a class called NUMBER with an integer data member and member function to set the value for this data member. Derive three classes from this base class called HEXADECIMAL, DECIMAL and OCTAC. Include a member function DISPLAY () in all these three derived classes to display the valve of base class data member in hexadecimal, decimal and octal respectively. Use the concept of pure function.

6. Write a C++ program to illustrate the concept of friend function.

7. Write a program to add two complex number by overloading the + operator. Display the complex numbers by overloading << operator.

8. Write short notes on any four of the following:
   a) What is the difference between a copy constructor and an overloaded assignment operator?
   b) Write a function that swaps the values of two number using pointer.
   c) When are virtual functions created for implementing late binding?
   d) What is exception handling? How are exception handled in C++?
   e) Explain different relationship between classes.
   f) What is use case diagram?

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