Total No. of Questions : 8]   [Total No. of Printed Pages : 2

Roll No..

MCA-303
MCA. III Semester
Examination, November 2018
Object Oriented Methodology and C++

Time : Three Hours

Maximum Marks : 70

Note : i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) State the important features of object oriented programming. Compare the object oriented system with procedure oriented system.

   b) What is constructor? Explain different types of constructors.

2. a) What is function overloading? Illustrate function overloading through add function which adds two integer, two float numbers.

   b) What is inheritance? Explain different types of inheritance.

3. a) What is pure virtual function? Explain with suitable example.

   b) What is friend function? Write a program for friend function.

[2]

4. a) What is exception handling? How are exceptions handled in C++?

   b) Write a short notes on I/O stream class with hierarchy . for C++ stream handling.

5. a) Write a program to add two complex numbers by overloading the + operator.

   b) Discuss public and derived class in inheritance.

6. a) Discuss UML diagram. Give any example for UML diagram.

   b) Explain visual modeling.

7. a) Write a C++ program to count the number of objects of certain class.

   b) What is dynamic memory management?

8. Write short notes on:

   a) Object diagrams

   b) Seekp( ) and tellp( )

******