S.B. Roll No.....................................

OBJECT ORIENTED PROGRAMMING USING C++
4th/Comp/IT/CSE/0623/May'16

Duration: 3 Hrs   **M. Marks=75**

SECTION A

Note: Attempt all questions.   **15x1=15**

Q.1. Do as directed:

a.………is process by which objects of one class acquire the properties of objects of another class.

b.An instance of a class is called……….

c. The name of the constructor is same as name of the…………..

d.…………. means one name having multiple forms.

e.What is extension of C++ program?

f. Inheritance aids data hiding.**(T/F).**

g.A pure function has no body.**(T/F).**

h.The end of file function is detected by using function……….

i. Switch case statement is preferred over Nested –If statement.**(T/F).**

j. A friend function is a non member function.**(T/F).**

k.The value of expression 13%4 is 3.**(T/F)**

l. String is array of………….

m. Loop within loop is called Nested loop.**(T/F)**

n.Binary operator work on…….. Operands.

o.The operator << is called………….

SECTION B

Q.2.Note: Attempt any SIX questions   **6x5=30**

   i. What is purpose of Break statement? Explain.

  ii. What is constructor? How do we invoke a constructor function?

 iii. Write a program in C++ to print the number in reverse order.

  iv. Write a program in C++ to input two numbers and find their sum and average.

   v. What is friend function? Explain by giving suitable example.

  vi. What do you mean by function overloading? Explain with example.

 vii. Differentiate between Structure and Union with example.

viii. What do you mean by operator overloading? Explain with example.

  ix. Explain the use of switch statement with example.

SECTION C

Q3.Note: Attempt any TWO questions.   **2x15=30**

   i. Explain different forms of inheritance with suitable example for each.

  ii. How is polymorphism achieved at compile time and run time?

 iii. Explain all the basic features of object oriented programming language.

  iv. Write a program to overload a unary minus operator in C++ language.

   v. What are various file opening modes? Write a program in C++ for creating file with constructor function.