SEAT No. :

PA-22

[5931]-32

(Electronics &Computer /A.I. & D.S./ Computer Science & Design Engineering)
OBJECT ORIENTED PROGRAMMING
(2019 Pattern) (Semester-I) (210243)

Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates:

1) *Answer Q.1 or Q.2, Q.3 or Q.4.*
2) *Assume suitable data, if necessary.*

Q1) a) What is the use of 'this' pointer. Explain with Example **[4]**

b) What are the different ways to define member functions of a class? Give Examples of Each **[4]**

c) Define inline function. Write a C++program for finding the area of a triangle using inline functions. **[7]**

OR

Q2) a) Compare Procedure oriented programming Vs Object oriented programming **[4]**

b) What is difference between pointer and references? **[4]**

c) Write C++ code that defines a class and declares and array of objects to that class **[7]**

Q3) a) Discuss the role of access specifiers in inheritance and show their visibility when they are inherited as public, private and protected. **[4]**

b) Explain the void and null pointer with example **[4]**

c) Write a C++ program to demonstrate pointers to base and derived classes **[7]**

OR

Q4) a) Explain friend function with example. **[4]**

b) How are arrays represented using Pointers. Explain with example **[4]**

c) Explain hybrid inheritance with a C++ example. **[7]**