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Reg. No. : .....

Name : .....

Fourth Semester B.Tech. Degree Examination, June 2016
(2013 Scheme)
13.403 : OBJECT ORIENTED TECHNIQUES (FR)

Time : 3 Hours Max. Marks : 100

PART – A

All questions are **compulsory**. **Each** question carries **4** marks.

1. What are the uses of inline functions ?
2. Differentiate a structure with a class.
3. Is it possible for the objects of a derived class to access the private members of the base class ? If yes, how ?
4. Illustrate the exception handling mechanism.
5. List out any four containers supported by Standard Template Library. **(5×4=20 Marks)**

PART – B

Answer **one** question from **each** Module. **Each** question carries **20** marks.

Module – I

6. Explain the principles of object oriented programming with illustrative examples. **20**
7. a) Write a C++ program to find the area of the square, rectangle, circle using function overloading. **12**

   b) Write a C++ program using default arguments to find volume of an object. **8**

P.T.O.

Module – II

8. a) List the special characteristics of friend function. 6

   b) Write a C++ program that takes either two integers or two floating point numbers and displays the largest using class. 14

9. What are the various types of constructors ? Illustrate with suitable example for each one of them. 20

Module – III

10. Explain the different types of Inheritance with suitable example for each one of them. 20

11. a) Write the rules for overloading the operators. 6

    b) Write a C++ program to add two complex numbers using operator overloading. 14

Module – IV

12. a) Explain the use of any six manipulators with example. 6

    b) Explain in detail the unformatted I/O operations. 14

13. a) Explain the overloading of template function with suitable example. 10

    b) Write a function template for finding the minimum value contained in an array. 10

(4×20=80 Marks)