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Reg. No. : .....

Name : .....

Fourth Semester B.Tech. Degree Examination, June 2016
(2008 Scheme)
08.404 : OBJECT ORIENTED TECHNIQUES (RF)

Time : 3 Hours Max. Marks : 100

PART – A

Answer **all** the questions. **Each** question carries **4** marks. **(10×4=40 Marks)**

1. Define data abstraction and encapsulation.
2. List the objectives of inline function.
3. What is function polymorphism ?
4. Which are the special characteristics of friend function ?
5. Explain the use of default constructor.
6. What is "this" pointer ?
7. When do you make a class virtual ?
8. Distinguish between early binding and late binding.
9. What do you mean by generic classes ?
10. Write a short note on data conversion.

P.T.O.

PART – B

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

(3×20=60 Marks)

Module – I

11. a) Explain the basic elements of object oriented programming.
    b) With suitable example, explain scope resolution operator.

OR

12. a) What is the significance of declaring a variable anywhere in the scope ?
    b) What are the rules to be followed in function overloading ?

Module – II

13. a) Define a class CON with three integer data members, a member function display( ) to display the values and also declare three constructors in the class. First constructor receives no arguments, second receives two integer arguments and third receives one CON object as an argument. Write a program to initialize the data members using constructors and explain.
    b) How do you create an array of class objects ? Give a program example.

OR

14. a) Explain how the member functions can be accessed using pointers.
    b) With suitable example, explain the use of destructor.

Module – III

15. a) Explain the concept of inheritance with example.
    b) Explain any two functions used for manipulating file processing.

OR

16. a) Explain the concept of virtual functions and their uses.
    b) Write a program for overloading the assignment operators.
