(Pages : 2) **B – 6096**

Reg. No. : .....

Name : .....

Fourth Semester B.Tech. Degree Examination, June 2017
(2008 Scheme)
08.404 : OBJECT ORIENTED TECHNIQUES (RF)

Time : 3 Hours Max. Marks : 100

PART – A

Answer **all** questions.

1. What are the characteristics of friend function ?
2. What is memory leak ?
3. Compare early binding and dynamic binding.
4. Explain with example multiple inheritance.
5. What is "this" pointer ? Give example.
6. Why do we use templates in C++ ?
7. Explain with example abstract class.
8. What are dynamic constructors ? Give example.
9. Can object appear as function arguments ? Illustrate this with an example.
10. Illustrate with example unary operator overloading. **(10×4=40 Marks)**

PART – B

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

Module – I

11. a) Write a program to extract left and right most n characters. **10**

    b) Explain with example storage class specifiers. **10**

OR

12. a) Write a program to read a string and format it such a way that each sentence is on a new line with no leading blanks. A sentence can be recognised by a fullstop, followed by a space followed by a capital alphabetic letter. **10**

b) Explain the features of object oriented programming. **10**

Module – II

13. a) Explain with example static members and static functions. **10**

b) Write a program to perform the addition of time in hour and minutes format. Use objects as function arguments concept. **10**

OR

14. a) Explain with example local class. **10**

b) An electricity board charges the following rates to domestic users to discourage large consumption of energy. All users are charged a minimum of Rs. 50. If the total amount is more than 300, then additional surcharge of 15% is added. Write a program to read the names of users and no. of units consumed and print out the charges with names. **10**

Module – III

15. Explain with examples how runtime polymorphism is implemented. What are its practical applications ? **20**

OR

16. a) Explain in detail different types of sequence containers. **12**

b) Explain the features of microsoft foundation classes library. **8**