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.
    b) Explain with example storage class specifiers.

OR

P.T.O.
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