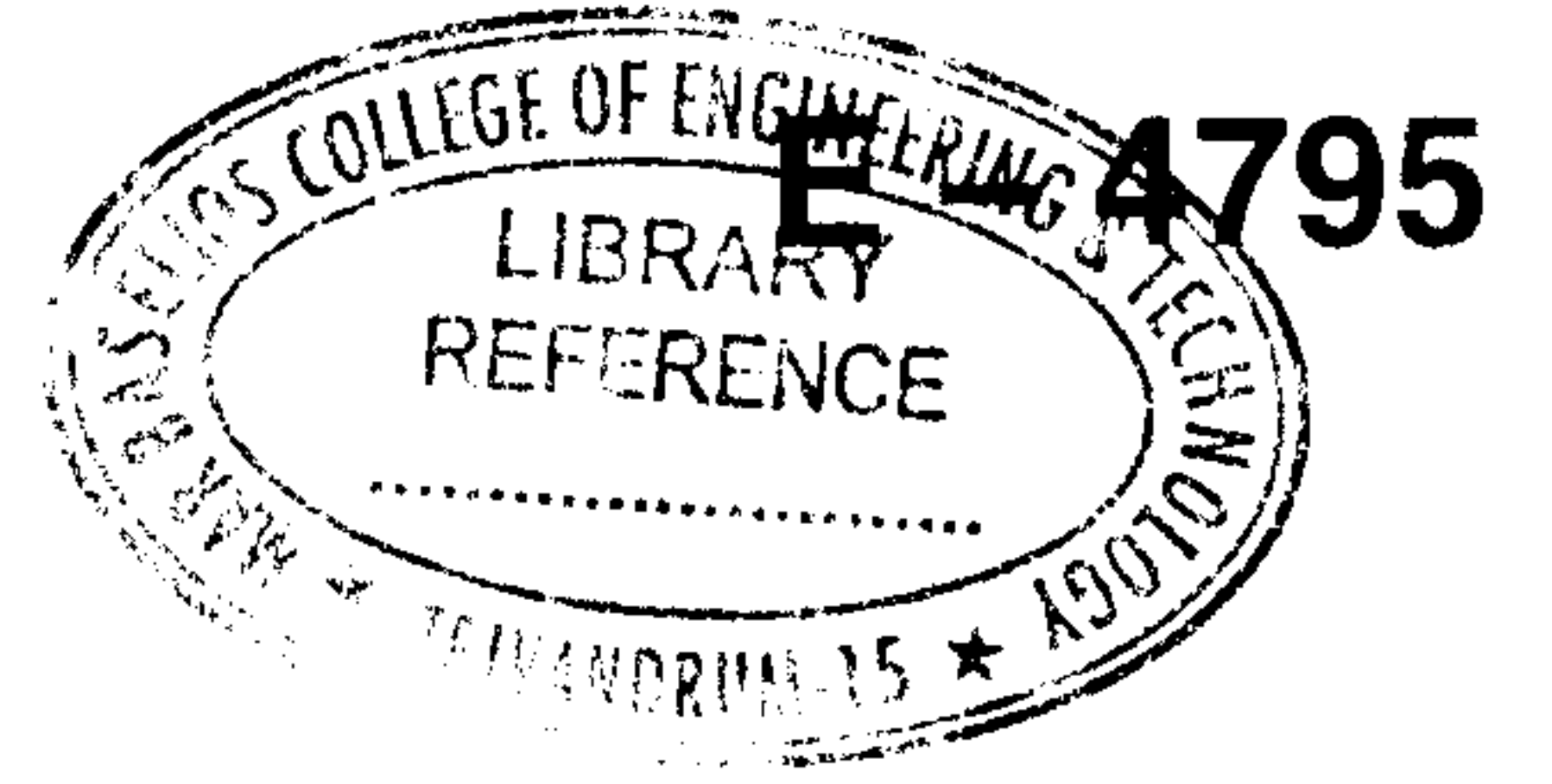




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Reg. No. :

Name :

**Fourth Semester B.Tech. Degree Examination, September 2018
(2008 Scheme)
08.404 : OBJECT ORIENTED TECHNIQUES (R F)**

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions :

1. Explain encapsulation.
2. What is message passing ?
3. How are data and functions organized in an object-oriented program ?
4. Explain how a static data member differ from ordinary data member.
5. What is the significance of scope resolution operator (::) ?
6. What is dynamic initialization of objects ?
7. Explain any two functions for manipulation of file pointers.
8. What is function overriding ?
9. Discuss the array of objects with examples.
10. What is a file mode ? Describe the various file mode options available.
(10×4=40 Marks)

PART – B

Answer **any one** from **each** Module :

Module – I

11. a) What is the use of a constructor function in a class ? Give a suitable example of a constructor function in a class. **10**
- b) Write a C++ program to find the factorial of a number using a Constructor and a Destructor. **10**

OR

12. a) Write a program in C++ which demonstrate the use of inheritance. **10**
- b) What do you understand by function returning a pointer ? Give suitable example to support your answer. **10**

P.T.O.

**Module – II**

13. a) Explain data members, member function, private and public members with example. 12
- b) What is a class ? How objects of a class are created ? 8

OR

14. a) Differentiate between compile time polymorphism and run time polymorphism. 8
- b) Define a class "string" with members to initialize and determine the length of the string. Overload the operator '+' for the class "string". 12

Module – III

15. a) What is a virtual base class ? When do we make it ? 10
- b) What do you mean by dynamic binding ? How it is useful in OOPS ? 10

OR

16. a) Write a C++ program to perform multiplication between an integer and complex number object using friend operator function. Why can't we use member operator function in this case ? 12
- b) Write a program to illustrate overloading binary operators. 8
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