



Reg. No. :

Name :

Seventh Semester B.Tech. Degree Examination, May 2014
(2008 Scheme)
08.705 C : PRINCIPLES OF PROGRAMMING LANGUAGES (F)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions. **Each** question carries **4** marks.

1. How are programming languages generally classified ? Explain.
2. Explain closest nested scope rule.
3. Differentiate between structural and name equivalence with examples.
4. What are the functions performed by a subroutine prologue and epilogue ?
5. Describe the different methods of allocating subroutine stacks.
6. Explain the significance of 'this' parameter in object oriented languages.
7. Distinguish between enumeration controlled loops and logically controlled loops.
8. What is the difference between a thread and a coroutine ?
9. Distinguish between enumeration controlled loops and logically controlled loops.
10. What do you mean by reflection ? **(10×4= 40 Marks)**

PART – B

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

Module – 1

11. Briefly explain the seven major categories of control flow mechanisms. **20**
- OR
12. a) Briefly explain type checking. **10**
 - b) Write short notes on records and variant records. **10**

P.T.O.

**Module – 2**

13. a) Explain the stack layout for subroutine management. 10
b) Give a typical subroutine calling sequence. 10

OR

14. a) Write short notes on :
i) Encapsulation
ii) Inheritance
iii) Constructors
iv) Polymorphism. 20

Module – 3

15. a) Briefly explain string and pattern manipulation in scripting languages. 10
b) Compare the approaches to object orientation taken by different scripting languages. 10

OR

16. a) Explain the following :
i) fork/join
ii) co-begin. 10
b) Briefly explain remote procedure call. 10
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