



Reg. No. :

Name :

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

Time : 3 Hours

Max. Marks : 100

PART – A

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

1. Discuss about exception handling mechanisms in programs.
2. Discuss about binding and binding time.
3. What are the different types of translators ?
4. What is a parse tree ? Give parse tree for simple assigns.
5. Give the differences between natural language and a formal language.
6. Give the differences between physical and logical concurrency ?
7. Explain the list structures of Prolog.
8. Give the concept of lazy evaluation with an example.
9. Write and explain the differences between Dynamic binding and Encapsulation.
10. Write a short note on lambda calculus. **(10×4=40 Marks)**

PART – B

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

Module – I

11. a) What are the advantages and disadvantages of dynamic type binding ? **10**
b) Compare the tomb-stones of avoiding dangling pointers from the point of view of safety and implementation cost. **10**

OR

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12. a) What are control statements and why do we require them ? 10
b) Write a note on the representation of multidimensional arrays in the memory. 10

Module – II

13. a) Explain object oriented programming and logic programming with examples ? 10
b) Write short notes on 5
a) Inheritance
b) Dynamic binding
c) Give an account of various design issues in Object Oriented Languages. 5

OR

14. a) Explain general characteristics of Small Talk. 10
b) Explain the concept of Exception Handling with an example. 10

Module – III

15. Explain how Language Level Synchronisation Mechanisms are implemented briefly. 20

OR

16. Prove the correctness of a sample program using axiomatic semantics. 20
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