Code No. 2394 / N

FACULTY OF ENGINEERING

B.E. 3/4 (CSE) II – Semester (New) (Main) Examination, April / May 2013

Subject : Principles of Programming Languages

Time : 3 hours **Max. Marks : 75**

Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B.

PART – A (25 Marks)

1. Draw the syntax tree for ((-y -6 *3)/z)+2. 3
2. What are regular expressions? 2
3. What is an alias? 2
4. What is type checking? 2
5. Define dynamic binding. 3
6. Write on events. 3
7. Define encapsulation. 2
8. What is inspection? 2
9. What are semaphores? 3
10. Write on dynamic compilation. 3

PART – B (50 Marks)

11. Explain phases of compilation with diagram. 10

12.a) Explain stack-based storage allocation mechanism. 5

b) Explain iteration control structure. 5

13.a) Write on genetic subroutines. 5

b) Explain call by reference with example. 5

14. Explain about arrays with examples in different languages. 10

15.a) What are recursive types? 5

b) Explain concurrency mechanism in Ada. 5

16. Explain the concept of inheritance. 10

17.a) Explain logic programming language features. 5

b) Write on scheme programming language. 5

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