Total No. of Questions : 8] [Total No. of Printed Pages : 2

Roll No. .....

CS–602(N)

B. E. (Sixth Semester) EXAMINATION, June, 2011

(Computer Science & Engg. Branch)

PRINCIPLES OF PROGRAMMING LANGUAGES

[CS–602(N)]

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 35

Note : Attempt any *five* questions. All questions carry equal marks.

1. (a) Explain object oriented programming and logic programming with examples. 10

   (b) Explain the steps of compilation in PPL. 10

2. (a) Explain the difference between in type coherance and type equivalence. 10

   (b) What do you mean by Aliasing and Overloading ? 10

3. Consider the example program, discuss the call by reference and call by value : 10

```
Swap (a [i], a [j])
What happens if i = j ?
Swap ( int x, int y)
{
    x = x + y;
    y = x – y;
    x = x – y;
        }
```

P. T. O.

(b) Explain design issues of subprogram and parameter passing methods. 10

4. (a) Explain the phases of grammar. 10

(b) Why pointer is necessary in any programming languages ? 10

5. (a) What is the scope of a loop parameter in Ada ? Compare it with static and dynamic scope. 10

(b) Which language treat all parametor (Operator) having the same priority in what order the operations performed ? 10

6. (a) Discuss the effect of the global variable on the writability and readability of large program. 10

(b) What do you mean by co-routines ? Explain. 10

7. (a) Explain the procedure of encapsulation and message passing in programming language. 10

(b) Write the working procedure of exception handling in C + +. 10

8. Write short notes on any *four* of the following : 20

(a) Functional programming languages

(b) Java threads

(c) Fundamentals of subprogrames

(d) Parse tree

(e) Error handling