

Total No. of Questions :10]

[Total No. of Printed Pages :2

www.rgpvonline.com

Roll No

CS-602

B.E. VI Semester

Examination, June 2013

Principles of Programming Languages

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks :35

- Note:** i) Attempt one question from each unit.
ii) Assume suitable data wherever necessary.

Unit - I

1. a) Discuss the issues of language translation. 10
- b) What is passing. Explain its various approaches with its advantages and disadvantages. 10

OR

2. a) Explain language evaluation and Beakers Nous form briefly. 10
- b) What are various factors influencing the evolution of programming language. 10

Unit - II

3. a) Explain how dynamic type checking affects system performance and improves flexibility with example. 10
- b) Differentiate records from variant records with suitable example. 10

OR

4. a) Explain the following terms: 10
 - i) Strong typing
 - ii) Type coercion
 - iii) Pointers
- b) Explain sequence control within expression and statements. 10

Unit - III

5. Explain the following: 2

- a) Coroutines
- b) Local referencing environment
- c) Generic sub programming
- d) Activation records.

OR

6. a) What are the three semantics models of parameter passing methods? Explain. 1
- b) Discuss the design issues for function overloaded operators. 1

www.rgpvonline.com**Unit - IV**

7. a) Compare C++ and Java threads. 1
- b) Explain static and stack based storage management briefly. 1

OR

8. Explain the following: 2
- a) Monitors.
 - b) Garbage collection.
 - c) Perl.
 - d) Message passing.

Unit - V

9. a) What is the purpose of instantiation matching and unification with respect to Logic programming PROLOG? 10
- b) Discuss the features of prolog. 10

OR

10. a) What are exceptions? How are they handled in Java. 10
- b) Explain the rules for expression evaluation in functional programming. 10
