

Roll No

CS - 602

B.E. VI Semester

Examination, December 2014

Principles of Programming Languages

Time : Three Hours

Maximum Marks : 70

Note: 1. Attempt any five questions.

2. All questions carry equal marks.

1. a) Explain the characteristics of a good programming language? 7
b) What are the different factors that influence the evolution of programming languages? 7
2. a) Explain in detail different stages in language translation. 7
b) Explain various syntactic elements of language. 7
3. a) Define the terms: 7
i) Dab types
ii) Binding
b) Explain different looping statements used in 'c' language. 7
4. a) Discuss the advantages and disadvantages of static and dynamic type checking? 7
b) State various components of referencing environment. 7
5. a) Explain stock dynamic local variables and static local variable with their advantages and disadvantages. 7
b) Explain the implementation of parameter passing methods. 7
6. a) Explain the concept of abstraction and encapsulation with suitable example. 7
b) What is monitor? What are its advantages and disadvantages over semaphores? 7
7. a) What is logic programming? Explain it with respect to relation, rules, facts and queries. 7
b) Explain various functional forms in functional programming. 7
8. Write short notes: 14
i) GGL
ii) Exception handling in c++
iii) Virtual function
iv) Concurrent programming