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Roll No

CS-6002 (CBGS)**B.E. VI Semester**

Examination, May 2018

Choice Based Grading System (CBGS)**Principles of Programming Languages***Time : Three Hours**Maximum Marks : 70***Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain object oriented programming and logic programming with examples.
b) What do you mean by Aliasing and Overloading?
2. a) Explain the difference between in type coherence and type equivalence. **rgpvonline.com**
b) Explain the steps of compilation in PLL.
3. a) Describe the similarities and differences between context-free grammars and tree grammars.
b) Describe the approach of using axiomatic semantics to prove the correctness of a program.
4. a) Why pointer is necessary in any programming languages?
b) What is lazy evaluation? Explain the reasons why lazy evaluation may be desirable.

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5. a) Which language treat all parameters (Operator) having the same priority in what order the operations performed?
b) Explain the differences between type conversion, type coercion and non converting type casts.
6. a) List the differences between an intrinsic attribute and a non-intrinsic synthesized attribute.
b) Explain about the virtual and non virtual methods. Also explain the virtual methods in C++ and C#.
7. a) Explain procedure of encapsulation and message passing in programming language.
b) What are the benefits of data abstraction?
8. a) Write the working procedure of exception handling in C++?
b) Explain the characteristics of functional programming languages.