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CS 602

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B.E. VI Semester

Examination, June 2014

Principles of Programming Languages

Time: Three Hours www.rgpvonline.in Maximum Marks: 70

Note: Attempt all questions. All questions carry equal marks.

- 1. a) What are the different factors that influences the evolution of programming languages?
 - b) What are the different components of the context free grammar used for programming language construction.

OR

- 2. a) Explain in detail different stages in language translation.
 - b) Explain various syntactic elements of language with the help of examples. 7
- 3. a) Define pointer. Explain various design issues of pointer and pointers in c/c++.
 - b) Explain the problem caused by uniform evaluation rule while evaluating an expression and the solution to the problem.

OR

- 4. a) What is sequence control? Explain various categories of sequence control.
 - b) Explain the different categories of scalar type variables with their advantage and disadvantages.

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1. a) What do you understand by coroutines? How do we achieve control transfer between coroutines?

b) What is the difference between procedure and function? Explain with suitable example.

OR

- 2. a) What do you mean by referencing environment of sub program? Discuss its several components?
 - b) Explain the following implementation models for parameter passing with an example.
 - i) Pass -By-value
- ii) Pass-By-value-Result
- iii) Pass-By-Reference

i) Garbage collection

- iv) Pass-By-Name
- 1. a) Explain different elements which require storage during program execution.
 - b) Explain the concept of abstraction and encapsulation with suitable example.

OR

- 2. a) Explain Briefly:
- ii) Semaphores
- b) What is concurrency? Discuss various categories of concurrency? 7
- 3. a) Explain the use of predicate calculus in logic programming.
 - b) How functions are declared in functional programming language.

OR

4. Write short note:

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- i) Activation records
- ii) 4GL
- iii) Dangling pointers

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