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B.Tech II Year II Semester (R13) Supplementary Examinations May/June 2017

## PRINCIPLES OF PROGRAMMING LANGUAGES

(Computer Science & Engineering)

Time: 3 hours Max. Marks: 70

## PART - A

(Compulsory Question)

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- 1 Answer the following:  $(10 \times 02 = 20 \text{ Marks})$ 
  - (a) What are the objectives of principles of programming language?
  - (b) Write any two influences on language design.
  - (c) What is an elementary data type?
  - (d) Give an example for operation signature.
  - (e) What is the effect of a call statement?
  - (f) Write any two assumptions of subprograms.
  - (g) What is a race condition?
  - (h) List any two deficiencies of prolog.
  - (i) Define lazy evaluation.
  - (j) What for scripting languages are used?

## PART - B

(Answer all five units,  $5 \times 10 = 50 \text{ Marks}$ )

UNIT - I

What are the potential benefits of studying programming language concepts?

OF

- 3 (a) What do you mean by static semantics?
  - (b) The levels of acceptance of any language depend on the language description. Comment on this.

UNIT - II

4 What are primitive and non primitive data types?

OR

5 Briefly explain about the records and the sets data structures.

(UNIT - III)

6 Explain the various parameter passing methods. Discuss their features.

OR

7 Discuss about genetic sub-routine and modules.

[UNIT - IV]

8 Define exception. How exception handler works? Explain with example.

OR

9 What is meant by control in prolog? Briefly explain.

UNIT - V

Define functional programming language. List the properties of functional programming languages and describe each of them briefly.

**OR** 

- 11 (a) Explain early binding and late binding.
  - (b) Write an essay that distinguishes scripting languages from dynamic language.