

B.Tech II Year II Semester (R13) Supplementary Examinations May/June 2017 **PRINCIPLES OF PROGRAMMING LANGUAGES**

(Computer Science & Engineering)

Max. Marks: 70

Time: 3 hours

1

PART - A

(Compulsory Question)

- Answer the following: (10 X 02 = 20 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 X 10 = 50 Marks)

UNIT - I

2 What are the potential benefits of studying programming language concepts?

OR

- 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

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

11 (a) Explain early binding and late binding.

(b) Write an essay that distinguishes scripting languages from dynamic language.