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Code: 15A05504

B.Tech III Year I Semester (R15) Supplementary Examinations June 2018 **PRINCIPLES OF PROGRAMMING LANGUAGES**

(Computer Science & Engineering)

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
 - (a) List few programming languages paradigms.
 - (b) Define a language and list the two aspects of any programming language.
 - (c) Write the examples of built-in types of a programming language.
 - (d) Compare static and dynamic program checking.
 - (e) Write the prefix and postfix forms of the infix expression "a*b+c"
 - (f) Define the goal of software design.
 - (g) Describe the features of object oriented languages.
 - (h) Contrast single and multiple inheritances.
 - (i) List the characteristics of imperative languages.
 - (j) Identify three components of a functional programming language.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

OR

- 2 Describe about the sample software development process based on the waterfall model.
- 3 Explain about the language processing issues in detail.

UNIT – IL

4 Compare built-in types and primitive types with examples.

OR

- 5 Write short notes on the following:
 - (i) Monomorphic versus polymorphic systems.
 - (ii) Types and subtypes.

UNIT – III

- 6 Explain in detail about conditional execution and iteration.
- 7 Describe about concepts in support of modularity.

UNIT – IV

8 Discuss in detail about object-oriented programming concepts.

OR

9 Describe about the features of inheritance and type system.

UNIT – V

- 10 (a) Explain about the features of imperative languages.
- (b) Describe about the principles of functional programming.

OR

11 Discuss in detail about principles of logic programming.

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