

Code No: RT31053

**R13****SET - 1****III B. Tech I Semester Supplementary Examinations, May - 2016****PRINCIPLES OF PROGRAMMING LANGUAGES**

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)2. Answering the question in **Part-A** is compulsory3. Answer any **THREE** Questions from **Part-B**

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**PART -A**

- 1 a) Explain about parsing. [3M]
- b) Write any two design issues for arithmetic expressions. [3M]
- c) Explain about generic methods. [4M]
- d) Differentiate between procedural languages and object oriented languages. [4M]
- e) Write short notes on lambda calculus. [4M]
- f) Explain about multi paradigm languages. [4M]

**PART -B**

- 2 a) Explain in detail about language evaluation criteria. [4M]
- b) Explain about lexical analysis. [8M]
- c) Write short notes on context free grammar. [4M]
- 3 a) Explain various primitive data types with suitable examples. [6M]
- b) Discuss about type-checking. [6M]
- c) Explain about control structures. [4M]
- 4 a) Explain how subprograms names are passed as parameters. [8M]
- b) Define sub program. What are the distinct categories of Subprograms? [8M]
- 5 a) Discuss the design issues of Exception Handling. [8M]
- b) Explain in detail abstract data types in java with examples. [8M]
- 6 a) Explain the principles of ML. [8M]
- b) Explain about fundamentals of FPL. [8M]
- 7 a) Explain about Logic programming. [8M]
- b) Explain the Basic elements of Prolog. [8M]

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