Code No: RT31053 **R13** SET - 1

III B. Tech I Semester Supplementary Examinations, October/November- 2020

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 compulsory
3. Answer any **THREE** Questions from **Part-B**

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PART –A (22 Marks)

1. a) Define Lexeme, Pattern and Token. [3M]
   b) List the advantages of using control structures in any of the compiled programming languages. [4M]
   c) Outline the pros and cons of procedures and functions. [4M]
   d) List the differences between statement level concurrency and subprogram level concurrency. [4M]
   e) Summarize the importance of Meta Language declaration statements. [4M]
   f) Discuss the need of multi paradigm languages. [3M]

PART –B (48 Marks)

2. a) What is the significance of language generators and language recognizers? Explain. [8M]
   b) Demonstrate the functionality of lexical analysis. [8M]

3. a) Discuss various primitive data types with suitable examples. [8M]
   b) Define Coercion, Type error, Type checking and Strong Typing. Explain the usage of these with an example. [8M]

4. a) Explain how subprogram is overloaded? Give examples. [8M]
   b) Discuss the design issues of subprogram and its operations performed on them. [8M]

5. a) Discuss different design issues for object oriented languages. [8M]
   b) Elaborate how concurrency is provided using semaphores? [8M]

6. a) What are the different primitive functions in a Scheme? Explain with examples. [8M]
   b) Explain how functions are defined in Scheme and ML? [8M]

7. a) Discuss the significance of list structures and Goal statements in PROLOG. [8M]
   b) Explain the benefits of multiparadigm languages with their features and functions. [8M]

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