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Question Paper Code: 30543

M.E./M.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022

First Semester

Computer Science and Engineering

CP 4154 - PRINCIPLES OF PROGRAMMING LANGUAGES

(Common to : M.E. Computer Science and Engineering (With Specialization in Artificial Intelligence and Machine Learning)

(Regulations 2021)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$

- Justify the statement "Understanding the concepts of programming languages helps to choose appropriate language for applications"
- Illustrate the operators in C that are designed similar to the operators in ALGOL68 with examples.
- 3. Distinguish between Static scope and Dynamic scope.
- Convert the following expression into prefix and postfix expressions. A*(B^(C+D)/(E-F)+G)*H/I-J.
- 5. Mention the implementation models of parameter passing.
- Provide an example for user defined overloaded function in Java.
- 7. Draw the flow diagram of different states of a Task.
- 8. Write a C++ program to illustrate the use of 'this' pointer.
- 9. List any four numeric functions in Scheme.
- When the prepositions are said to be Horn clauses? Give an example.

PART B — $(5 \times 13 = 65 \text{ marks})$

(a) How Left recursion affects the Recursive-Decent parser? Illustrate
Recursive-decent parsing with an example and necessary parse tree
representation. (13)

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(b) Define Attribute Grammar. Generate the fully attributed parse tree for the assignment statement B=C*D-E. (13)

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