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Roll No

MCADD-502

M.C.A. (Integrated), V Semester

Examination, May 2024

Principles of Programming Language

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain the different categories of Languages.
b) Describe the steps involved in the language Evaluation.
2. a) Distinguish between Ambiguous grammar and Unambiguous Grammar.
b) Derive and Construct the Parse tree for Simple Assignment.
 $A := B * (A + C)$.
3. a) Explain different types of storage management.
b) What is Monitor? What are its advantages and disadvantages?
4. a) Define syntax and semantics of a language.
b) Explain how to handle Exceptions in C++ .
5. a) What is Exception Handling? How do we handle them?
b) What is Logic Programming? Explain it with respect to relation, rules, facts and queries.

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6. a) Explain the features of 4GL.
b) Explain the implementation of parameter passing methods.
7. a) Discuss about Fact Statements and Rule Statements in PROLOG
b) Write a brief notes on generic sub-programs.
8. Write short notes on the following:
 - i) Co-routines
 - ii) Dangling pointer
 - iii) Abstraction
 - iv) Aliasing
