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Roll No

MCADD-502

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

Examination, May 2022

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. 7
b) Describe the steps involved in the language Evaluation. 7
2. a) Distinguish between Ambiguous grammar and Unambiguous Grammar. 7
b) Derive and Construct the Parse tree for Simple Assignment.
 $A := B * (A + C)$ 7
3. a) Discuss about pointers in FORTRAN 90, Ada, Pascal with an suitable example. 7
b) What is an Associative Array? Discuss its Structure and implementation with an example. 7
4. a) Explain the different Parameter passing methods with an example. 7
b) Define Subprogram. What are the distinct categories of Subprogram. 7

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5. a) Compare and contrast co-operation synchronization and competitive synchronization in message passing. 7
- b) What is Semaphore? What are the operations on Semaphore? 7

6. a) List and explain Applications of Logic Programming. 7
- b) Compare functional Programming Languages and Imperative Languages. 7

7. a) Discuss about Fact Statements and Rule Statements in PROLOG. 7
- b) Explain how to handle Exceptions in C++. 7

8. Write short notes on any TWO: 14
- a) 4GL
- b) BNF
- c) CFG
- d) C# Thread
