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Roll No

MCADD-502

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

Examination, May 2023

Principles of Programming Language

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Define syntax and semantics of a programming language.
b) Explain the features of Object Oriented Programming.
2. a) Explain in detail different stages in language translation.
b) What do you mean by Parsing? Explain its various approaches with its advantages and disadvantages.
3. a) Explain different types of storage management.
b) Explain various design issues for function overloaded operation.
4. a) Explain static and stack based storage management.
b) What is Concurrency? Discuss the concept of subprogram level concurrency.
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) Explain the differences between type conversion, type coercion and non converting type cast.
b) What is Inheritance? Explain different types of inheritance supported by the C++ with suitable example.

8. Write short notes on the following:
 - i) Co-routines
 - ii) Dangling pointer
 - iii) Abstraction
 - iv) Aliasing
