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Roll No

MCADD-502

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

Examination, November 2019

Principles of Programming Language

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) What is Compilation? Explain its various phases with the help of an example.
b) Discuss the characteristics of a Good Programming Language.
2. a) Explain the effect of programming environment on language design.
b) What is Syntactic Ambiguity? Explain it with suitable example. How do we resolve it?
3. a) What is Sequence control? Explain various categories of sequence control?
b) What is Binding of data? Explain different types of binding data type to variable.
4. a) Explain stack dynamic local variables and static local variables.
b) Differentiate between function and coroutine with an example.

5. a) Define referencing environment? State various components of referencing environment.
b) Define the following:
 - i) Generic subprograms
 - ii) Overloaded subprograms

6. a) Explain the concept of Abstraction and Encapsulation with suitable example.
b) Explain different storage management phases.

7. a) What is a Monitor? What are its advantages and disadvantages over semaphores?
b) What are the applications of logic and functional programming?

8. Write short note:
 - i) 4GL
 - ii) Exception Handling
 - iii) Garbage Collection
 - iv) BNF Grammar
