Total No. of Questions : 8]   *[Total No. of Printed Pages : 2*

Roll No ....

MCADD-502

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

Examination, June 2020

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 language.

   b) Explain the effect of programming environment on language design.

2. a) Explain different types of binding.

   b) Differentiate between.

     i) Function and co routine

     ii) Call by value and call by name

3. a) What is conditional statement and also write one example?

   b) Explain different types of storage management.

4. a) What is exception handling? How do we handle them?

   b) Explain functional programming with suitable example.

5. a) What is encapsulation and data hiding? Explain with suitable example.

   b) What do you mean by scope and lifetime of the variable? Explain Static and Dynamic scope.

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6. a) What is prolog? Explain basic elements of Prolog.
   b) What is monitor? Explain its advantages and disadvantages.

7. a) What do you mean by array? How it is access? Explain array with example.
   b) What is data type? Explain primitive and user defined data types with example.

8. Write short note on the following.
   a) Compiler
   b) Semaphore
   c) Structured programming
   d) 4GL

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