Roll No ....

MCADD-502

M.C.A. (Dual Degree/Integrated Course), V Semester

Examination, November 2018

Principles of Programming Language

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) With taking a suitable example explain context free grammar?

    b) Discuss various issues in Language Translation.

2. a) Discuss the role of Data types in Programming language? Explain any two data types.

    b) Why type checking is require in programming language?

3. a) How to handle a error in programming language?

    b) Explain scope and life time of variable with taking a suitable example.

4. Explain the following terms

    i) Parameter passing method

    ii) Static and Dynamic scope

5. a) How abstractions and encapsulation are complementary concepts? Explain with example.

   b) Discuss stack based and Heap based storage management.

6. a) What is Threads? Why it is needed?

   b) Explain monitors and semaphores.

7. a) Explain basic element of Prolog.

   b) Write any one programme based on the concept of exception handler in C++.

8. Write a short notes on (any two)

   i) 4GL

   ii) Concurrency

   iii) Loops

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