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

Roll No ....

CS-6002-CBGS
B.E. VI Semester
Examination, December 2020
Choice Based Grading System (CBGS)
Principles of Programming Languages
Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) What do you understand by program readability? Discuss this language design criteria with important characteristics.

    b) Discuss the important factor that influence the evolution of Programming Language.

2. a) Discuss CFG and BNF grammar with example.

    b) Write a short notes on Virtual machines.

3. a) Explain design issue of sub program and parameter passing methods.

    b) Consider the example program. Discuss the call by reference and call by value

    Swap (a [i], a[j])

    What Lappens if i = J?

    Swap (int x, int y)

    { $x = x + y$: $y = x–y$: $x = x–y$;}

4. a) For an elementary data type in a language, explain the difference between data objects of that type and the values that those data objects may contain.

   b)   What is sequence control? Explain various categories of sequence control.

5.   a)   Explain Stock dynamic local variables and Static local variables with their advantages and disadvantages.

   b)   What do you understand by Coroutines? How do we achieve control transfer between coroutines?

6.   a)   What is Referencing environment? State various components of referencing environment.

   b)   Explain different elements that require storage during Program execution.

7.   a)   Explain procedure of encapsulation and message passing in programming language.

   b)   What are the benefits of data abstraction?

8.   a)   Write the working procedure of exception handling in C++?

   b)   Explain the characteristics of functional programming languages.

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