Roll No ....

CS-6002-CBGS

B.E. VI Semester

Examination, June 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)   Describe in detail different stages involved in language translation.

    b)   Explain in detail about various language evaluation criteria and characteristics that affect them.

3. a)   Explain different conditional and looping statements used in programming with suitable example of each.

    b)   Define a record. How is it implemented? How is it different with Union?

4. a)   Explain briefly:

      i)   Variable Initialization

      ii)   Type checking

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

5. a) Explain various design issues for function overloaded operation.

   b) Discuss the design issues of subprogram and operations.

6. a) Explain static and stack based storage management.

   b) Differentiate between C# threads and Java threads? Give an example of each.

7. a) Explain the features of functional programming languages.

   b) What is Logic Programming? Explain it with respect to relation, rules, facts and queries.

8. Write short notes:

   i) Concurrency

   ii) Basic elements of Prolog

   iii) Semaphores

   iv) Monitors

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