

Class: BS CS Fall 2022 (5th)

Course Name: Theory of Programming Language

Test # 1 Date: 25-09-2024

Total Points: 20

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Name: _____ Roll No. _____

Question No. 1: Select the best option

1. What is a prototype

- A. mini-model of existing system
- B. mini-model of proposed system
- C. working model of existing system
- D. none of these

2. For specifying the syntax of a language ___ is used.

- A. context free language
- B. regular expression
- C. finite automata
- D. none of these

3. What is relationship between reliability and failure?

- A. direct relation
- B. inverse relation
- C. no relation
- D. varying relation depending upon the situation

4. Language efficiency can be achieved by _____.

- A. maximum speed
- B. less memory consumption
- C. reusability
- D. all of these

5. Semantic of a program means-

- A. format of a program
- B. meaning of a program
- C. simply content of a program
- D. none of these

6. Grammars are capable to describe the structure ofand independentmodels.

- A. language and computational
- B. language and lexical
- C. language and syntactic
- D. none of above.

7. In a compiler _____ checks every character of the source text.

- A. the lexical analyzer.
- B. the syntax analyzer.
- C. the code generator.
- D. the code optimizer.

8. In the early days of computing, the computer was used mainly in_____

- A. historical perspective
- B. language and maintainability
- C. Scientific applications.
- D. All of the above

Question No. 2: _____ (6)

Describe the term Theory of Programming Languages also explain syntax, semantic and pragmatics of language?

Question No. 3: _____ (6)

Define CFG and explain basic components of CFG.