Sample Questions
Automata-Fix

1. L and ~L are recursive enumerable then L is

    a. Regular

    b. Context free

    c. Context sensitive

    d. Recursive

2. Regular grammar is

    a. context free grammar

    b. non context free grammar

    c. English grammar

    d. none of the mentioned

3. Regular expression are

    a. Type 0 language

    b. Type 1 language

    c. Type 2 language

    d. Type 3 language

4. A language is regular if and only if

    a. accepted by DFA

    b. accepted by PDA

    c. accepted by LBA

    d. accepted by Turing machine default access

5. Complement of (a + b)* will be

    a. phi

    b. null

    c. a

    d. b

6. Which of the following is true?

    a. Every subset of a regular set is regular

    b. Every finite subset of non-regular set is regular

    c. The union of two non-regular set is not regular

    d. Infinite union of finite set is regular

7. Which of these constructors is used to create an empty String object?

    a. String()

    b. String(void)

    c. String(0)

    d. None of the mentioned

8. Which of these is a type of stream in Java?

    a. Integer stream

    b. Short stream

    c. Byte stream

    d. Long stream

9. Transition function maps.

    a. $\Sigma * Q \to \Sigma$

    b. $Q * Q \to \Sigma$

    c. $\Sigma * \Sigma \to Q$

    d. $Q * \Sigma \to Q$

10. Number of final state require to accept Φ in minimal finite automata.

    a. 1

    b. 2

    c. 3

    d. None of the mentioned