

Sample Questions

Automata-Fix

1. L and $\sim L$ 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. ϕ
 - 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. $\Sigma * Q \rightarrow \Sigma$
 - b. $Q * Q \rightarrow \Sigma$
 - c. $\Sigma * \Sigma \rightarrow Q$
 - d. $Q * \Sigma \rightarrow Q$
10. Number of final state require to accept Φ in minimal finite automata.
- a. 1
 - b. 2
 - c. 3
 - d. None of the mentioned