

1. Number of states required to accept string ends with 10.

- a) 3
- b) 2
- c) 1
- d) can't be represented

2. Language of pushdown automata is.

- a) Type 0
- b) Type 1
- c) Type 2
- d) Type 3

3. Finite automata requires minimum _____ number of stacks.

- a) 1
- b) 0
- c) 2
- d) 6

4. The Grammar can be defined as: $G=(V, \Sigma, p, S)$. In the given definition, what does S represent?

- a) Accepting State
- b) Starting Variable
- c) Sensitive Grammar

d) None of these

5. A push down automaton employs _____ data structure.

a) Queue

b) Linked List

c) Hash Table

d) Stack

6. Which among the following is not a part of the Context free grammar tuple?

a) End symbol

b) Start symbol

c) Variable

d) Production

7. If a problem has an algorithm to answer it, we call it _____

a) decidable

b) solved

c) recognizable

d) solution

8. Turing machine has _____ tuples.

a) 2

b) 5

c) 6

d) 7

9. Turing machine has _____ symbols to fill the tape.

a) Blank

b) Input

c) Null

d) None of the mentioned

10. Which of the following automata takes stack as auxiliary storage?

a) Finite automata

b) Push down automata

c) Turing machine

d) state machine