TCS_Quiz-4_sh-20[co4]

Total points 10/10

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50

✓ 1]The instantaneous PDA is has the following elements * 1/1

- ○ State
- ○ Unconsumed input
- ○ Stack content
- ◉ All of the mentioned ✓

✓ 2]The moves in the PDA is technically termed as: * 1/1

- (●) Turnstile ✓
- ( ) Shifter
- ( ) Router
- ( ) None of the mentioned

✓ 3]Which of the following are the actions that operates on stack top? * 1/1

- ( ) Pushing
- ( ) Popping
- ( ) Skipping
- (●) All of the mentioned ✓

✓ 4]A push down automata is said to be _____ if it has atmost one transition around all configurations * 1/1

- ( ) Finite
- ( ) Non regular
- ( ) Non-deterministic
- (●) Deterministic ✓

✓ 5]Which of the following conversion is not possible (algorithmically)? * 1/1

- regular grammar to context-free grammar
- nondeterministic FSA to deterministic FSA
- ◉ nondeterministic PDA to deterministic PDA ✓
- nondeterministic TM to deterministic TM

✓ 6] Push down automata accepts _____ languages * 1/1

- Type 3
- ◉ Type 2 ✓
- Type 1
- Type 0

✓ 7]A push down automaton employs _____ data structure. * 1/1

- Queue
- Linked List
- Hash Table
- ◉ Stack ✓

✓ 8]A push down automata can represented using: * 1/1

- ○ Transition graph
- ○ Transition table
- ○ ID
- ◉ All of the mentioned ✓

✓ 9] Consider the grammar S ---> PQ | SQ | PS P ---> x Q--> y To get a string of n terminals, the number of productions to be used is * 1/1

- ○ n2
- ○ n + 1
- ○ 2n
- ◉ 2n - 1 ✓

✓ 10]Finite-state acceptors for the nested words can be * 1/1

- ◉ nested word automata ✓
- ○ push down automata
- ○ ndfa
- ○ none of the mentioned