

Online Test_TCS(TE_B)_18 july

Total points 8/8



Time :12:16 to 1pm

Email address *

ameythakur@ternaengg.ac.in

Roll No *

B50

Name of Student *

Amey Thakur

✓ 1] Given a NFA with N states, the maximum number of states in an equivalent minimized DFA is at least. *

1/1

☐ N^2 ☒ 2^N ☐ $2N$ ☐ N 

✓ 2] Transition function maps. *

1/1

- ☐ $\Sigma * Q \rightarrow \Sigma$
- ☐ $Q * Q \rightarrow \Sigma$
- ☐ $\Sigma * \Sigma \rightarrow Q$
- ☒ $Q * \Sigma \rightarrow Q$



✓ 3] Language of finite automata is. *

1/1

- ☒ Type 3
- ☐ Type 2
- ☐ Type 0
- ☐ Type 1



✓ 4] Number of states require to simulate a computer with memory capable of storing '3' words each of length '8' *

1/1

- ☐ $3 * 28$
- ☒ $2(3*8)$
- ☐ $2(3+8)$
- ☐ None of the mentioned



✓ 5]An FSM with *

1/1

- ☐ stack is more powerful than an FSM with no stack
- ☐ stacks is more powerful than a FSM with 1 stack
- ☒ both (a) and (b)
- ☐ None of these

✓

✓ 6]A FA with ϵ - Transitions is *

1/1

- ☐ Deterministic FA
- ☒ Non deterministic FA

✓

✓ 7]String X is accepted by finite automata if . *

1/1

- ☐ $\delta^*(q,x) \in A$
- ☐ $\delta(q,x) \in A$
- ☒ $\delta^*(Q_0,x) \in A$
- ☐ $\delta(Q_0,x) \in A$

✓

✓ 8]Languages of a finite automata is *

1/1

- ☒ Regular language
- ☐ Context free language
- ☐ Context sensitive language

✓



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