Top 20 IMP Questions of TCS Exam 2024

Top Numericals of TCS Exam 2024

Note : This questions are highest priority but we recommend to study all the questions given in how to pass Module Wise importance PDF to Pass and Score better marks

- Design DFA or NFA Numericals

- Design NFA with Epsilon and Convert into DFA or Minimized DFA numericals

- Moore and Mealy Machine Numericals

- Pumping Lemma Numericals

- Construct a CFG Numercials

- Leftmost derivation , Rightmost derivation , Parse tree , Check if the grammar above is ambiguous or unambiguous Numerical

- CFG to CNF Numercials

- Design a Push Down Automata numericals

- Design a Turing Machine Numericals

Top Theory Questions of TCS 2024

- Discuss the difference in transition functions of PDA, TM, and FA.

- Compare and contrast Moore and Mealy Machines.

- Explain the Pumping Lemma for regular languages

- Explain with an example, Chomsky Hierarchy.

- Write short note on Variants of Turing Machines

- TM-Halting Problem.

- Recursive and Recursively enumerable languages.

- Post Correspondence Problem

Extra :

- Discuss different applications of Finite Automata.

- Types of Turing Machine or its subtopic : Universal turing machine

- Write short note on Arden's Theorem

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