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CS8501 Theory of Computation Important 13mark questions

Unit I

- 1. Discuss the basic approach to convert from NFA to Regular Expression. Illustrate with an example.
- 2. What is a Regular Expression? Write a regular expression for set of strings that consists of alternating 0's and 1's.

Unit II

- 1. Define Derivation tree. Explain its uses with an example.
- 2. Construct the CFG to generate even add odd set of palindromes over alphabets {a, b}.

Unit III

- 1. Explain acceptance by finite state acceptance by empty stack of a pushdown automata.
- 2. With an example, Explain the procedure to obtain a PDA from a given CFG.

Unit IV

- 1. Discuss the various techniques for Turing machine construction.
- 2. Describe Chomsky hierarchy of languages with example, what are the devices that accept these languages.

Unit V

- 1. What is Post Correspondence Problem (PCP)? Explain with the help of an example.
- 2. Elaborate on Primitive recursive functions with an example.