

Dr. Shyama Prasad Mukherjee University, Ranchi
Master of Computer Applications
Assignment Questions

Semester - II

Subject - Automata Theory (CCMCA204)

1. (a) What is the difference between NFA and DFA.
(b) Construct Finite Automata that accepts set of all strings with prefix 'ab' over $\Sigma = \{a, b\}$.
2. What is Chomsky classification of Grammar? Explain with example.
3. Write short notes on following:
 - (a) Multi-tape Turing machine
 - (b) Church Turing thesis
 - (c) PCP
4. Consider a finite automaton with null (Λ) moves, obtain an equivalent automaton without null (Λ) move.

