Gujarat Technological University Government Engineering College, Modasa

B.E. - Computer Engineering (Semester - VI)

3160704 - Theory of Computation

ASSIGNMENT

#	Topic
	Design finite automata for the following languages over alphabets {a, b}:
	 String starting with a and ending with b
1	Stings having sub string aba
	 Strings having a in count of multiple of 4
	 Strings having odd number of a's and even number of b's
2	Derive regular expression for all above languages
3	Design a PDA to detect palindrome string of even length
4	Design a PDA to detect palindrome string of odd length
5	Design TM to detect palindrome of odd/even length
6	Design TM for the language a^nb^{2n} , where $n > 0$