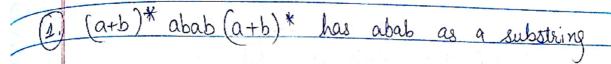
## THEORY OF COMPUTATION SURPRISE TEST-2

SUBMITTED BY: ALMAN SIDDIQUA 2K18/MC/008

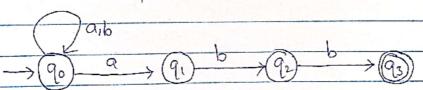


- (2) a (a+b)(a+b) (a+b) stells with a and has length 4.
- (i) Every regular language over \( \Si\) is finite False

  (ii) \( aa\* + bb\* \) is the same as \( (a+b)\* False\)

  ((a+b)\* \( can \) have \( \) but \( aa\* + bb\* \) doesn't \)

  (\( a\* \) over \( \{ a \} \) is a contractictory example for (i) \)
- (4) finite automata for (a+b)\* abb



The transition table for the NFA is:

