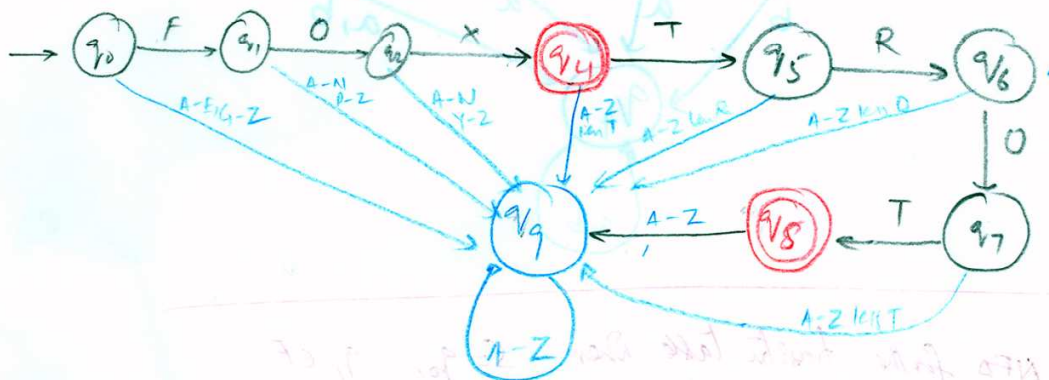


# AUTOMATA THEORY AND FORMAL LANGUAGES

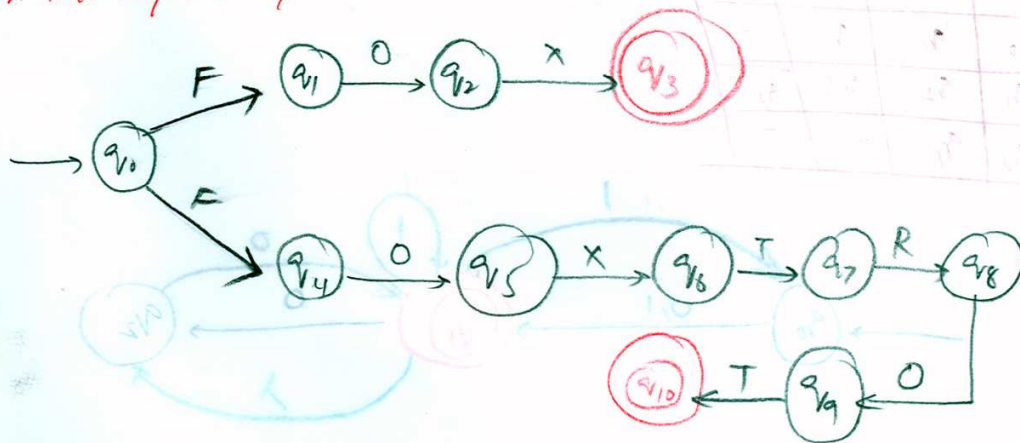
## QUIZ 01- DFA/NFA

### SOLUTION

Q1: DFA that accepts Fox & FoxTROT also



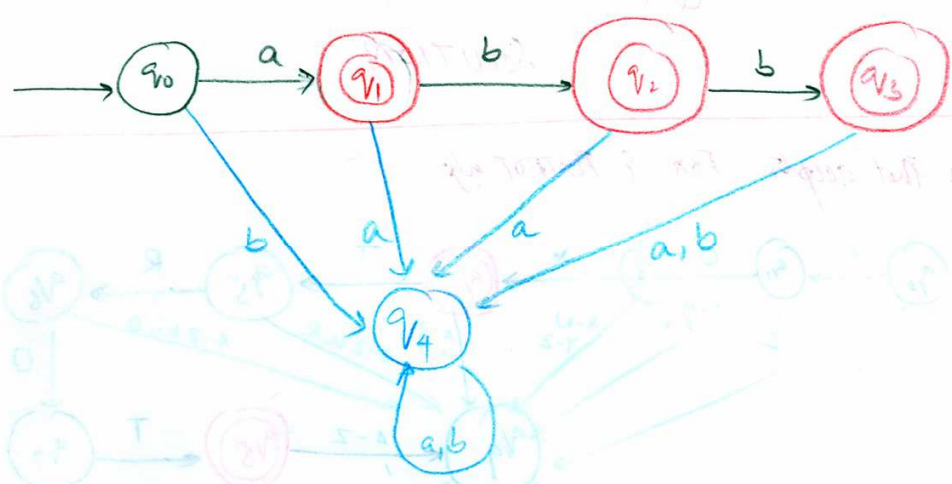
Q2: NFA that accepts Fox & FoxTROT



②

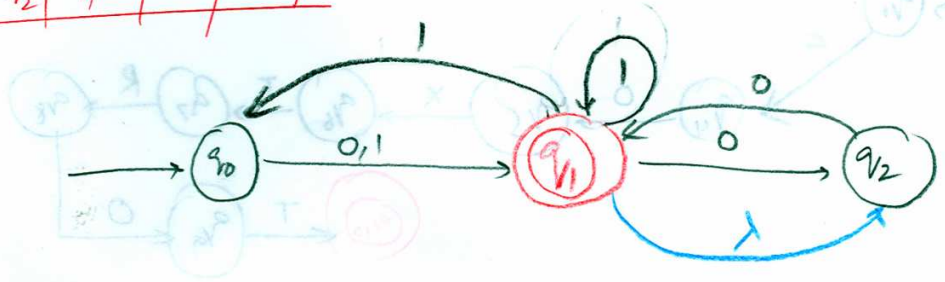
Q3. A DFA for  $L = \{ a b^n, 0 \leq n \leq 2 \}$

DFA for a language contains  $a, ab, abb$  only.



Q4: NFA for the transition table where  $S = q_0, q_1 \in F$

	0	1	$\lambda$
$q_0$	$q_1$	$q_1$	-
$q_1$	$q_2$	$q_0, q_1$	$q_2$
$q_2$	$q_1$	-	-



Q5: NFA that accepts all strings that <sup>contain</sup> ~~start with~~ exactly two 'a' and followed by not more than two 'b'

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