

Review 7

Automata & Theory of Computation

Student ID:

Name:

1. Find a regular expression for the language

(1) $L = \{ w \in \{0, 1\}^* : w \text{ has at least one pair of consecutive zeros} \}$.

(2) $L = \{ w \in \{0, 1\}^* : w \text{ has no pair of consecutive zeros} \}$.

2. Find an nfa that accepts $L(r)$, where $r = (a + bb)^*(ba^* + \lambda)$.