Review 23

Automata & Theory of Computation

Student ID:

Name:

1. Show that the following language L is not context-free.

(1)
$$L = \{a^n b^n c^n : n \ge 0\}.$$

(2)
$$L = \{ww : w \in \{a, b\}^*\}.$$

(3)
$$L = \{a^{n!} : n \ge 0\}.$$

(4)
$$L = \{a^n b^j : n = j^2\}.$$