Review 21

Automata & Theory of Computation

Student ID: Name:

- 1. Answer the following questions.
- (1) Construct an npda that accepts the language generated by a grammar with productions

 $S \rightarrow aSbb|a.$

(2) Show that the npda in (1) accepts the string aabb.

- 2. Answer the following questions.
- (1) Construct an npda that accepts the language generated by a grammar with productions

$$S \rightarrow aA, A \rightarrow aABC \mid bB \mid a, B \rightarrow b, C \rightarrow c.$$

(2) Show that the npda in (1) accepts the string aaabc.