Assignment 10

Automata & Theory of Computation

Student ID: **Name:**

1. Produce a context-free language using the grammar G, with productions

$$S \rightarrow aaB,$$
$$A \rightarrow bBb|\lambda,$$
$$B \rightarrow Aa.$$

2. Produce a context-free grammar to show the following language is context-free.

$$L = \left\{ a^n b^m : n \leq m + 3, n \geq 0, m \geq 0 \right\}$$