

Review 16

Automata & Theory of Computation

Student ID:

Name:

1. Eliminate useless symbols and productions from $G = (V, T, S, P)$, where $V = \{S, A, B, C\}$ and $T = \{a, b\}$, with P consisting of

$$S \rightarrow aS \mid A \mid C,$$

$$A \rightarrow a,$$

$$B \rightarrow aa,$$

$$C \rightarrow aCb.$$