## **Assignment 13**

## **Automata & Theory of Computation**

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1. Remove all unit-productions and all  $\lambda$ -productions from the grammar with productions

$$S \rightarrow bC \mid a$$
,  
 $A \rightarrow aA \mid \lambda$ ,  
 $B \rightarrow bB \mid \lambda$ ,  
 $C \rightarrow AB$ .

Male - A,B,C

2. Unit production

S-bClalb

A-2 aAla

B-2 bBlb

C-2 AB [AB]

Unit production

S-bClalb

A-2 aAla

b-2 bBlb

C-2 AB [aAla[bB]b]