Theoretical Computer Science Tutorial VII

1) Show that the following grammar is ambiguous.

2) Describe the language generated by the following grammar.

3) Eliminate e-productions from G, where G is consisting of following productions.

4) Eliminate unit-productions from CFG, where P is given by

5) Consider CFG, $G = (V_N, \sum, P, S)$ where $V_N = \{S, A, B\}$

$$\Sigma = \{0,1\}$$
 and
 $P = \{ S \rightarrow A11B \mid 11A \mid B \mid 11 \mid A \rightarrow 0 \mid B \rightarrow BB \}$

Remove useless symbols from it.

6) Construct CFG without null production from the one which is given below

$$A \rightarrow b \mid A$$

 $B \rightarrow b \mid A$