CS 302 QUIZ 7

22 November 2017

Duration: 15 minutes

Do not forget to write your name on your paper!

QUESTION

Consider the CFG $G=(\{E,M,I,J\},\{0,1,+\},R,E)$ where

 $R: E \rightarrow I \mid E+I \mid M; I \rightarrow \theta \mid IJ; M \rightarrow M\theta; J \rightarrow \theta J \mid IJ \mid e$

- (a) (4 pts) Simplify this grammar by eliminating first the null and unit productions and then the useless symbols.
- (b) (6 pts) Compute the Chomsky Normal Form for this CFG.