CS 302   *1 December, 2016*

QUIZ 7

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 → I |E+I |M ; I → 0 |1J ; M → M0 ; J → 0J |1J| 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.*