CS 302 QUIZ 5

22 October, 2019

Duration: 15 minutes

Do not forget to write your name on your paper!

QUESTION

Consider the CFG, $G=(\{S,T,Q\},\{0,1,','\},P,S)$, where:

 \boldsymbol{P} :

 $S \rightarrow \theta \mid \theta . Q \mid 1T$;

 $T \rightarrow \theta T | 1T | .Q | e;$

 $Q \rightarrow \theta Q \mid 1Q \mid 1$

- (a) (5 pts) State in simple language what the strings generated by G correspond to?
- (b) (5 pts) Using this grammar derive the binary coded string 10.01

(corresponding to the decimal coded fractional number 3.25)