CS 302 QUIZ 5

15 November, 2016

Duration: 15 minutes

Do not forget to write your name on your paper!

QUESTION

Consider the CFG $G=(\{E,F\},\{'[',']','(',')'\},P,E)$ where P is given as follows:

 $P: E \rightarrow (E) | EE | F | e$; $F \rightarrow [F] | FF | e$, where e is the empty string.

State whether a string $oldsymbol{u}$ below is a member of $oldsymbol{L}_G$ and if so draw its parse tree :

(a)
$$u = (([][]))$$

(b)
$$u = ([()])$$

(c)
$$u = ([[]])$$