4.

PES UNIVERSITY, Bangalore

(Established under Karnataka Act No. 16 of 2013)

Department of Computer Science & Engineering

Automata Formal Languages & Logic

Homework - Context Free Grammar

1.	Given the grammar G:
	E-> E+T T
	T->T*F F
	F->(E) a
	Given the parse tree and derivation for each string.
	a. a
	b. a+a+a
	c. ((a))
2.	Given a CFG that generates the language $L=\{a^ib^jc^k\mid i=j \text{ or } j=k \text{ where } i,j,k>=0\}$ Is your grammar ambiguous? why or why not?
3.	