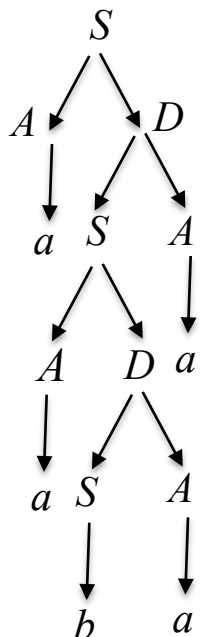*CS 302*   *8 December, 2016*
QUIZ 8

ANSWER

(a) G is already in CNF and the binary parse tree for aabaa is as below :

*(b) For G1 symbols S, D and b are **unreachable** from A and eliminated and CNF is GN1' = (A,a, A→ a ,A)*

For G2 CNF is same as G with the start symbol changed to

D. L_{G1} = {a} and L_{G2} = {$a^n b a^{n+1}$; n >0 }

(Note that: L_G = {$a^n b a^n$; n >0 } though this was not asked !)