1.

a) Grammar

 $\begin{array}{l} <S'> \to <C'> <A'> <D'> \\ <C'> \to A|B|C|D|E|F.... \ X|Y|Z \\ <A'> \to <B'> <B'> <H'> \\ <H'> \to <B'> <H'> \mid \epsilon \\ <B'> \to a|b|c|d|e|f|g|...x|y|z \\ <D'> \to <E'> <E'> <E'> <F'> \\ <F'> \to <E'> <F'>\mid \epsilon \\ <E'> \to 0|1|2|3|4|5|6|7|8|9 \\ \end{array}$ Terminals = { A,B,C,...X,Y,Z,a,b,c,...x,y,z,0,1,2,...9} Variables = {S',C',A',H',B',D',E',F'}