## a) Grammar

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

b)

