## CMPE 222 Spring 2018 Popup Quiz #3

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NAME:	
ID:	
GRADE:	
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L is the following language :	

1. **(20 pts)** Write 5 strings in L and 5 strings  $\underline{not}$  in L (all strings you write should be from the alphabet  $\Sigma$ )

2. (40 pts) Design a PDA (push-down automaton) that recognizes L.

L = {ω | ω = (01)  $^a1^{2a}0^b$ , a ≥ 1 and b ≥ 0 } and Σ = {0,1}

3. **(40 pts)** Write a context-free grammar that describes strings in L.