

CS 302
QUIZ 3

27 February, 2020

Duration : 15 minutes

Do not forget to write your name on your paper !

QUESTION

(a) (5 pts) State the Pumping Lemma.

(b) (5 pts) Is the language :

$L = \{w \in (0+1)^ \mid w = 0^k 1^m, k \geq m+1; k, m \geq 0\}$ a regular language ? If so construct an NFA that accepts L ; if not prove your claim by using the pumping lemma.*