

CS 302
QUIZ 7

3 May 2023

Duration : 20 minutes

Closed Notes , Books and all Electronic Devices

Do not forget to write your name on your paper !

QUESTION (10 pts)

State whether $L = \{w \in \{0,1\}^ \mid 0^n 1^m 0^n, 0 \leq m < n\}$ is a CFL by either exhibiting a CFG G that generates L or by using the **pumping lemma**.*