CS 302
QUIZ 10

26 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)*

(a) *(5 pts) Construct a c CFG* **G** *and a PDA* **P** *that respectively* **generates** *and* **accepts** *the language* **L = ($\omega \in \{0,1\}^*$ | $\omega = 0^n 1^m 0^n$, n,m ≥ 0)**

(b) *(5 pts) Compose a Turing Machine* **M** *either in* **graphical** *or* **tabular** *form (but not linguistic description !!) that* **decides** *the language* **L** *in part* **(a)** .