CS 302 QUIZ 5

19 April 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)(3 pts) State the definition of a **deterministic** pushdown automaton DPDA.

(b)(7 pts) Construct a PDA P for the language $L = (\omega \in \{0,1\}^* \mid 0^n 1^m, 0 \le n \le 2m)$ Is your PDA a DPDA? Explain.