CS 302 QUIZ 10

17 December, 2019

Duration: 15 minutes

Do not forget to write your name on your paper!

QUESTION (10 pts)

State the definition of a Deterministic Turing Machine DTM, $M = (Q, \Sigma, \delta, s, H)$:

- (a) (5 pts) **Deciding** a language $L \subseteq \Sigma_0^*$
- **(b)** (3 pts) **Semideciding** a language $L \subseteq \Sigma_0^*$
- (c) (2 pts) Computing a function $f: \Sigma_0^* \to \Sigma_0^*$

where $\Sigma_0 \subseteq \Sigma$