CS 302
QUIZ 9

17 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)*

*Construct a 2-tape DTM **M** that performs the following computation*

$M > (s ; \underline{\#} \, w , \underline{\#}) \vdash_M^* (h ; \underline{\#} , \underline{\#} \, 1^n)$ *where **n** is the number of **1**'s in the*

string $w \in \{0,1\}^*$.