CS 302
REMOTE QUIZ 3

17 March, 2021

Duration : 15 minutes

Closed Notes , Books and all Electronic Devices

Do not forget to write your name on your paper !

QUESTION

(a) *(5 pts) State whether the language :*

$L_1 := (w \in \{0,1\}^* / w = 0^n.1^k \; ; \; |n-k|$ *is an* **odd** *number)*

is a **regular** *language or not and PROVE your statement.*

(b) *(5 pts) Repeat the question in part* **(a)** *for the language :*

$L_2 := (w \in \{0,1\}^* / w = 0^n.1^k \; ; \; |n-k| = 1)$