

Tutorial-1
Course No CS F351
Course Title: Theory of Computation
Date:25/8/2021

1. Show that the following relations are equivalent relations and give their equivalence classes.
 - (a) R_1 on integers $\rightarrow iR_1j$ iff $i = j$.
 - (b) R_2 on people $\rightarrow pR_2q$ iff p and q were born on the same hour of same day of some year.
2. By using induction, prove that the following definitions of the palindrome is equivalent.

rd.

~~a~~ ~~a~~ ~~$!$~~

~~a~~ ~~x~~ ~~k~~ ~~$!$~~

a is a palindrome.

$!$

$$\omega = \frac{((w_1))}{\dots}$$

~~22 (2) 211~~