CS 201: DISCRETE STRUCTURES SECTION G

September 18, 2018. Quiz 2

Translate the following English sentences into propositional logic using the following propositions:

P(x): x is a Pakistani O(x): x is an office W(x,y): x works at y

Operators you are allowed to use: $\{^{\wedge}, v, , \rightarrow, \leftrightarrow\}$. Quantifiers you are allowed to use are: $\{\forall, \exists\}$

PROBLEM 1

All Pakistanis work in some office.

PROBLEM 2

Osama does not work in any office.

PROBLEM 3

There is an office in which no Pakistani works.