CS 201: DISCRETE STRUCTURES
Quiz 1

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

T: Today is Thursday
R: It is raining
B: The birds sing
F: Flowers bloom
C: It is Cloudy

Operators you are allowed to use: $\{\wedge, \vee, \neg, \rightarrow, \leftrightarrow\}$. **No other operators or propositional symbols are allowed.**

PROBLEM 1
Today is Thursday and it is raining.

PROBLEM 2
The birds do not sing unless it rains.

PROBLEM 3
The flowers always bloom only on a Thursday.

PROBLEM 4
It is either raining or it is cloudy but not both.

PROBLEM 5
It rains only if it is cloudy and a Thursday.