CS 163 Discrete Math http://neilklingensmith.com/teaching/loyola/cs163/	Fall 2019
Homework 2	
Due: September 17, 2019	

Name:

1. (20 points) Fill out the truth table below for the logic function

p	q	$\neg q$	$p \wedge q$	$\overline{(p \wedge q)}$	$p\oplus \neg q$	$\overline{(p\wedge q)}\ (p\oplus eg q)$	⇒
0	0						
0	1						
1	0						
1	1						

2. (5 points) How many possible sequences of heads and tails are there in k coin flips?

3. (10 points) How many ways are there to choose five balls from a set of ten balls?

4. (15 points) How many ways are there to order the numbers 1-5?