CIS 2033 Fall 2015: Computational Prob and Stat Quiz 1(Chapter 2) Name: _____

Show all work clearly and in order, and circle your final answers. Justify your answers algebraically whenever possible; you can use your calculator if needed. You have 10 minutes to take this quiz.

1. If an event is certain to happen it has a probability of zero.

- A) True
- B) False

2. What is more likely to happen?

A) Rolling a dice and getting a 6

B) Tossing a coin and getting 'heads'

3. How many possible outcomes are there when you toss a coin? (fair coin)

A) 1

B) 2

4. How many possible outcomes are there when you toss 3 coins simultaneously? (fair coin) A) 3

B) 8

5. How many possible outcomes are there when you toss n coins simultaneously? (fair coin) A) n

B) 2^n

6. How many possible outcomes are there when you toss 1 coin for n times? (fair coin)

A) n

B) 2^n

7. What's the probability of all heads, when you toss 1 coin for n times? (fair coin)

A) 1/n

B) $(1/2)^n$