CS 201: DISCRETE STRUCTURES
SECTION G
December 13, 2018.
Quiz 6 solution

CIRCLE ALL CORRECT ANS WERS. THERE MAY BE MORE THAN ONE CORRECT ANSWER

1. In how many ways can you arrange a group of 3 people for a photo from 3 different men and 4 different women?

a. C(7,3)
b. P(7,3)
c. C(3,3)C(4,3)
d. P(3,3)P(4,3)

2. How many societies of 3 students can be formed from 15 math and 20 CS students?

a. C(35,3)
b. P(35,3)
c. C(15,3)+C(15,2)+C(15,1)+C(15,0)
d. C(15,3)+C(15,2)C(20,1)+C(15,1)C(20,2)+C(20,3)

3. In how many ways can we make a string from 5 beads of different colors

a. C(5,5)
b. P(5,5)
c. P(5,0)
d. C(5,0)

4. How many total words of length 5 can we make from the letters {A,C, E, L, B, D}

a. P(6,5)
b. 6^5
c. 5^6
d. C(6,5)

5. In how many ways can we put 3 balls in a bag from an unlimited source of yellow, orange, red, green and blue balls?

a. P(8,3)
b. C(8,3)
c. 7^3
d. C(7,3)