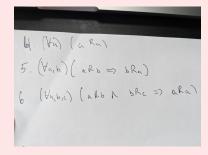
CSCI 1311: Quiz 8

30 Mar 2020

Name:		email	:				
Question Weighting							
	Question:	1	2	3	Total		
	Points:	4	3	3	10		
	Score:						
Submission Instructions When submitting on g		submi	t pictur	es of yo	our answe	ers. If you do so the	n
you should uplo large picture of an This will really help in	entire page if it	t can l	oe pra	cticall	ly avoid	ed.	a single
5. What is the definition		•					

I would upload a zoomed in picture (like the one on the right) that clearly included the answer to Question 5. Perhaps the image would include the answer to some other questions, like Question 4 or 6, but each question is well marked and zoomed in for this group of related questions. Please do not upload an entire page of answers, which makes it very difficult to grade, for example, to identify Question 5.



- The quiz is due to Gradescope at 2:59am EDT (11:59 PM PDT)
- You can learn the answer to the "Lab Question" by attending one of the lab sections.

Your answers should simply include the formula for each of the calculations, like x^n or $x^m - y^n$, or $x \cdot y \cdot z$ or P(n,r) or $\binom{n}{r}$. You can write out the final counts if you like, but just riting a number is not sufficient for full credit.

1. Consider passcodes that can only contain any letters A, B, C, D, and E and numbers 0, 1, 2, 3, 4. A pass-

	code	contains 5 items, and repitition is allowed.
	(a)	[1 point] How many passcodes exist where items can be repeated?
	(b)	[1 point] How many passcodes exit where items cannot be repeated?
	(c)	[2 points] How many passcodes contain at least a 4 or an A?
2.		e is a bucket of balls, of which 5 are red, 4 are blue, and 3 are yellow. [1 point] How many ways can 4 balls be drawn from this bucket?
	(b)	[2 points] How many ways can 5 balls be drawn from the bucket where 2 are red and are 3 blue?
3.	[3 pc	pints] What is the answer to the "Lab Question"