COT 3100 Fall 2020 - Homework #8 Grading Criteria

1) 6 pts - 3 pts for probabilities for each possible outcome from a single pair, 3 pts for the sum of the appropriate squares.

2) 6 pts - 2 pts for a sample space of 64, 4 pts for counting out the 20 successes one way or another, give partial here if some are missed or there is an arithmetic error.

3) 6 pts - 3 pts for the distribution of each possible outcome for a single triplet, 3 pts for the rest of the problem (this can be approached in quite a few ways, so give credit accordingly.)

4) 8 pts - 3 pts for part (a), correct terms = 2 pts, multiplying = 1 pt
5 pts for part (b), iteratively mult 6^{th} term (2 pts), mult 7^{th} term (2 pts), stop here when you see a product < .5 and clearly answer the question (1 pt)

5) 5 pts - 2 pts for stating relevant probability for matching k items, 2 pts for setting up expectation equal to 1, 1 pt for solving for X.

6) 6 pts - 4 pts for the tree diagram (give partial as needed), 1 pt for the corresponding equation, 1 pt for the solution of the equation, don't give the last two points at all if the diagram isn't correct. Note that no diagram is necessary, just the information the diagram conveys.

7) 8 pts - 3 pts for the sample space
4 pts for counting the opposite
1 pt for the final answer

If they don't try to subtract and get it wrong, give a max of 4/8.

8) 5 pts - Grade like the last bio, as long as it's reasonable and has the details I asked for, give full credit.

Writing the whole thing -10 penalty subtracted from regular final score.
Note: No penalty if typed and one or two drawings or written sections are attached inside pdf or doc as needed.