

You are taking "Quiz 3" as timed. The timer on the right shows the time remaining in the exam. To receive credit for problems, you must select "Submit" for each problem before you select "End My Exam".

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## Quiz 3 Questions

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### General Information

0 points possible (ungraded, results hidden)

Fill up the following fields carefully.

**Your Name:**

MD. BOKHTIAR RAHMAN

**Student ID:**

20301138

**CSE230 Section**

5

Submit

Answer submitted.

### Conditional Probability I

3.0 points possible (graded, results hidden)

In a TV series lovers' group, 70% of people love "The Big Bang Theory" and 80% people love "Friends". 40% people love both of them. If you randomly select a people, what is the probability that he/she loves "The Big Bang Theory" given he/she also loves "Friends"?

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You have used 0 of 2 attempts

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### Conditional Probability II

3.0 points possible (graded, results hidden)

40 out of 100 women have chances of getting diabetes. Suppose you are a boy. If your mother is diabetic, probability of you getting diabetes is 80%. But if your mother is not diabetic, the probability falls down to 45%. What is the probability of you getting diabetes?

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### Question : Binomial

6.0 points possible (graded, results hidden)

If your numerical answer is NOT an integer, put it in percentage and rounded to 2 decimal places. For example, if the answer is 0.22575 , you have to put 22.58% in the box. DO NOT FORGET TO PUT THE PERCENT (%) SIGN AT LAST. Putting only 22.58 without the trailing percent sign will be assessed as a wrong answer! You must NOT type any other symbol, space, operator, fraction etc in the box.

You are rolling a die and flipping a coin together for 'n' times. Suppose, the mean/expected number of getting a 1 and a head together i.e (1, H) is 87. Find the value of n.

  
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The probability of success in a single experiment is 'p' where p is less than 0.5. Suppose, you have run this experiment for 729 times . If the variance of the number of successful experiments is 81 , find p.

  
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### Question : Geometric

4.0 points possible (graded, results hidden)

Suppose, you are running an experiment that has two outcomes, namely 'success' and 'failure'. You initially don't know the probability of success in a single experiment. But you know that, if you continue to run the experiment several times, the expected number of experiment required for the first success is 25. What is the variance of the number of experiments required for the first success?

  
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You have used 0 of 2 attempts

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### Question: Multinomial

3.0 points possible (graded, results hidden)

Two chess players have the probability Player A would win is 0.40, Player B would win is 0.35, game would end in a draw is 0.25. If these two chess players played 12 games, what is the probability that Player A would win 7 games, Player B would win 2 games and the remaining 3 games would be drawn?

  
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You have used 0 of 2 attempts

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### Question: Poisson

6.0 points possible (graded, results hidden)

(Your answer for a and b should be in percentage and rounded to TWO decimal places. Don't forget to put a percent sign while answering in percentage)

In an average year in Las Vegas, there are 5 fires.

a. What is the probability that there'll 8 fires in the next TWO years?

  
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b. What is the probability that there'll be more than 9 fires in the year 2021?

  
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