STA301 - Statistics and Probability

100% Correct Solve (Alhamdulillah)

01-02-2021

BY Virtual Assistance Sonu Ilyas Mughal

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STA301:QUIZ-2

Question # 1 of 10 (Start time: 01:27:40 AM, 01 February 2021)

The marginal p.d.f. of any continuous variables is obtained by _____ the other variable from the joint p.d.f.

Select the correct option

- Averaging
- Integrating
- Multiplying
- Dividing

Click to

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Quiz Start

Question # 2 of 10 (Start time: 01:28:07 AM, 01 February 2021)

In a normal distribution how much area lies between $\mu \pm \sigma$

Select the correct option

- 65%
- 68.26%
- 75%
- 80%

Click to Save Ans

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Question # 3 of 10 (Start time: 01:28:29 AM, 01 February 2021)

A correlation coefficient:

Select the correct option

- ○ tells you the direction of the slope of the scattergram.
- ○ is a sort of index of how close the points of a scattergram deviate from the best fitting straight line through those points.
- ○ efficiently summarises some of the information in a scatterplot.
- ◉ all of these.

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Question # 4 of 10 (Start time: 01:28:53 AM, 01 February 2021)

The values of moment ratios b1 and b2 of normal distribution are:

Select the correct option

- 0 and 1
- 0 and 2
- 0 and 3
- 0 and 4

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Question # 5 of 10 (Start time: 01:29:15 AM, 01 February 2021)

Which of the following is not a property of a binomial experiment?

Select the correct option

- the experiment consists of a sequence of n identical trials
- each outcome can be referred to as a success or a failure
- the probabilities of the two outcomes can change from one trial to the next
- All of the above

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Quiz Start Time: 01:

Question # 6 of 10 (Start time: 01:29:36 AM, 01 February 2021)

We can obtain the individual probabilities of x and y from the joint probability function/distribution of f(x,y). Such individual probabilities are known as

Select the correct option

- (●) Marginal probabilities
- ( ) Bivariate probabilities
- ( ) Separate probabilities
- ( ) Independent probabilities

Click to Save Answer & M

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Quiz Start Time: 01:2

Question # 7 of 10 (Start time: 01:29:55 AM, 01 February 2021)

Assume a large distribution in which б = 6. What is the standard error of the mean based on samples for which n = I0?

Select the correct option

R

- I67
- 15
- 3
- 1.9

Click to Save Answer & Mo

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Question # 8 of 10 (Start time: 01:30:15 AM, 01 February 2021)

In a bivariate probability distribution of X and Y,
If f(1,1)=4/15, g(1)=2/3, h(1)=2/5,
then

Select the correct option

- X and Y are statistically independent
- X and Y are not statistically independent
- Both of these
- None of these

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Question # 9 of 10 (Start time: 01:30:36 AM, 01 February 2021)

In hyper geometric distribution events can be classified in to

Select the correct option

- a single category
- 2 categories
- 3 categories
- 4 categories

Click

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Question # 10 of 10 (Start time: 01:31:01 AM, 01 February 2021)

In binomial distribution, formula of calculating mean is:

Select the correct option

- ○ $\mu = p + q$
- ● $\mu = np$
- ○ $\mu = pq$
- ○ $\mu = qn$

Click

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Question # 1 of 10 (Start time: 01:40:10 AM, 01 February 2021)

Which of the following is not a property of a binomial experiment?

Select the correct option

- the experiment consists of a sequence of n identical trials
- each outcome can be referred to as a success or a failure
- the probabilities of the two outcomes can change from one trial to the next
- All of the above

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Question # 2 of 10 (Start time: 01:40:37 AM, 01 February 2021)

Poisson distribution can be used to approximate the hyper geometric distribution when; n <0.05N, n>20 and

Select the correct option

- p>0.05
- p<0.05
- p>0.10
- p<0.10

Click to Sa

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Question # 3 of 10 (Start time: 01:41:00 AM, 01 February 2021)

The hypergeometric probability distribution has parameters:

Select the correct option

- ○ N, n
- ○ N, P, n
- ◉ N, n, k
- ○ N, N-K, n

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Question # 4 of 10 (Start time: 01:41:23 AM, 01 February 2021)

A random experiment is a one in which we repeat it a large number of times under similiar conditions an it produces:

Select the correct option

- ○ Same results
- ◉ Different results
- ○ Independent results
- ○ None of the above

Click

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Question # 5 of 10 (Start time: 01:41:42 AM, 01 February 2021)

Given below is the probability distribution of random variable X. What is the value of "k"

x	0	1	2	3	4
p(x)	0.5	0.2	0.07	k	0.03

Select the correct option

- 0.02
- 0.1
- 0.20
- 0.002

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Question # 6 of 10 (Start time: 01:42:02 AM, 01 February 2021)

Poisson distribution is never:

Select the correct option

- Symmetrical
- Positively Skewed
- Negatively skewed
- Asymmetrical

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Question # 7 of 10 (Start time: 01:42:22 AM, 01 February 2021)

If X and Y are independent, then Cov (X, Y) is equal to:

Select the correct option

- 0
- 1
- 0 and 1
- None

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Question # 8 of 10 (Start time: 01:42:43 AM, 01 February 2021)

If E(x) = 3 then E(4X+3)=.....:

Select the correct option

- (●) 15
- ( ) 12
- ( ) 8
- ( ) 3

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Question # 9 of 10 (Start time: 01:43:01 AM, 01 February 2021)

Which of the following is not a requirement of a binomial distribution?

Select the correct option

- A constant probability of success
- Only two possible outcomes.
- A fixed number of trials.
- Equally likely outcomes.

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Question # 10 of 10 (Start time: 01:43:22 AM, 01 February 2021)

Which of the following is the requirement of a uniform distribution?

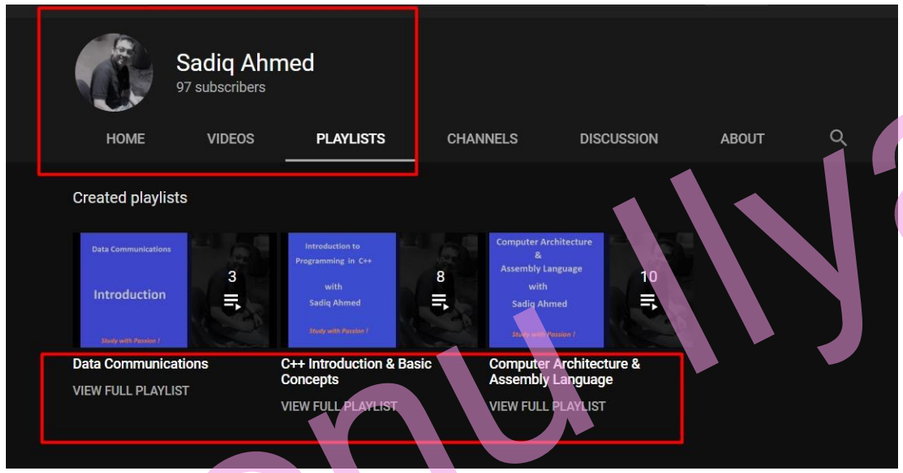
Select the correct option

- A constant probability of success
- Only two possible outcomes
- A fixed number of trials
- Equally likely outcomes

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