Quiz 3

Due Mar 12 at 23:59 **Points** 5 **Questions** 10

Available Mar 11 at 18:00 - Mar 12 at 23:59 Time Limit 60 Minutes

Instructions

Quiz 3 is scheduled from 11th March 2023, 6:00 pm to 12th March 2023, 11:59 pm.

- Number of questions 10
- Each question carries 0.5 M
- Time duration 1 Hour
- Read the question properly and answer.

All the best!!!!

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	60 minutes	4.5 out of 5

(!) Correct answers will be available on Mar 13 at 18:00.

Score for this quiz: **4.5** out of 5 Submitted Mar 12 at 19:00

This attempt took 60 minutes.

Question 1 0.5 / 0.5 p	
Which one of the following variables is not categorical?	
Choice on a test item (true or false)	
Gender of person(male or female)	
Age of a person	

Marital status of a person(single, married, divorced, other)

A box contains 10 identical balls. 6 of them are Green and 4 are Pink. Two balls are randomly selected without replacement from the box. What is the probability of getting two green balls?

1/3

6/10

5/9

5/10

There are 3 red balls, 4 green balls, and 5 black balls in a basket. The probability of not getting the red balls is

5/12

3/4

1/3

Question 4 0.5 / 0.5 pts

A binomial distribution may be approximated by a Poisson provided

- both n and p are small
- n is large and p is small
- oboth n and p are large
- n is small and p is large

Question 5 0.5 / 0.5 pts

Suppose that a book of 600 pages contains 40 printing mistakes. Assume that these errors are randomly distributed throughout the book and x, the number of errors per page has a Poisson distribution. What is the probability that 10 pages selected at random will be free of errors?

- $-\frac{1}{3}e^{-2}$
- $e^{-\frac{2}{3}}$
- $2e^{-\frac{1}{3}}$
- $-\frac{1}{3}e^{-1}$

Incorrect

Question 6

0 / 0.5 pts

If X and Y are independent, the cumulative distribution function Fx,y(x,y) is equal to $P(X \le x) - P(Y \le x)$ Fx(x).Fy(y) $P(X \le x) + P(Y \le y)$ Fx(x)+Fy(y)

Question 7 0.5 / 0.5 pts A Normal distribution with mean μ =0 and Standard deviation σ =1 is Standard Normal distribution. Regular Normal distribution Ideal Normal distribution Perfect Normal distribution

Question 8 0.5 / 0.5 pts

A randomly selected sample of 1,000 college students was asked whether they had ever used the drug Ecstasy. Sixteen percent (16% or 0.16) of the 1,000 students surveyed said they had. Which one of the following statements about the number 0.16 is correct?

It is a margin of error.
It is a population proportion.
It is a randomly chosen number.
It is a sample proportion.

Question 9 0.5 / 0.5 pts Find the 99% confidence interval estimate if the sample mean \overline{X} =0,the sample size n=121 and σ =11. -1.888941 to 1.888941 -1.133365 to 1.133365 -2.575829 to 2.575829

Question 10 O.5 / 0.5 pts The rejection probability of Null Hypothesis when it is true is called as? None of these Level of margin Level of Confidence

Level of significance

Quiz Score: 4.5 out of 5