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	23 minutes	4.5 out of 5

① Correct answers will be available on Mar 13 at 18:00.

Score for this quiz: 4.5 out of 5

Submitted Mar 12 at 18:23

This attempt took 23 minutes.

Question 1	0.5 / 0.5 pts
Which of the following is true.	
Mean is not affected by extreme values	
Median cannot easily be used to estimate population parameter.	
Median can easily be used to estimate population parameter.	
Median is affected by extreme values	
Question 2	0.5 / 0.5 pts
Question 2 A die is thrown twice. What is the probability that both numbers are even prime?	0.5 / 0.5 pts
	0.5 / 0.5 pts
A die is thrown twice. What is the probability that both numbers are even prime?	0.5 / 0.5 pts
A die is thrown twice. What is the probability that both numbers are even prime?	0.5 / 0.5 pts

Incorrect

Question 3 0 / 0.5 pts

White and red balls are contained in a bag. A total of two balls are chosen without being replaced. The odds of picking a white ball first and subsequently a red ball are 0.28. On the first draw, there is a 0.5 chance of selecting a white ball. Given that the first ball drawn was white, calculate the chance of selecting a red ball on the second draw.

- None of the above
- 59/100
- 58/100
- 14/25

Question 4 0.5 / 0.5 pts

If X follows a binomial distribution B(n, 0.2). If E(X) = 5 then the sample

size n is ---- and V(X) is -----

n = 25 and V(X) = 5 n = 15 and V(X) = 4 n = 20 and V(X) = 4 n = 25 and V(X) = 4

Question 5 0.5 / 0.5 pts

A book of 200 pages contains 200 misprinted. Estimate the probability that a given page contains at least 2 misprints

- 0.423
- 0.29
- 0.2642
- 0.3243

Question 6 0.5 / 0.5 pts

If the joint probability density function of the random variable(x, y) is given by

f(x,y) =2, 0≤x≤y≤1 then fy(y) is

2y

y
3y

5y

Question 7 0.5 / 0.5 pts

Let the random variable 'X' follows normal distribution with mean 70 and standard deviation 13. What is the value of P(60<X<90)?

- 0.1717
- 0.1617
- 0.8716

0.7176

Question 8 0.5 / 0.5 pts

Random samples of size 100 are drawn from a population with mean 100 and standard deviation 25. what is the standard deviation of sample mean?

- 3.5
- 2.5
- 1.5
- 4.5

Question 9 0.5 / 0.5 pts

- 1. What is the best description of a point estimate?
 - the margin of error used to estimate a parameter

	All of the above
(a sample statistic used to estimate a parameter
(any value from the sample used to estimate a parameter

Question 10	0.5 / 0.5 pts
A statement made about a population for testing purposes is called	
Type I error	
Hypothesis	
Statistics	
C Level of Significance	

Quiz Score: 4.5 out of 5