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

(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 20:03

This attempt took 60 minutes.

0.5 / 0.5 pts

Incorrect

Question 2 0 / 0.5 pts

A bag contains two white shoes, 2 brown shoes and 3 black shoes. Two shoes are drawn at random then find the probability that they are in same color.

- 9/21
- 5/21
- 5/7
- 0 1/7

Question 3

0.5 / 0.5 pts

25% of the children in a school have a dog.60% have a cat and 15 % have a dog and a cat. What is the probability of those who have a dog also have a cat?

- 4/5
- 3/5
- 0 1/5
- 2/5

Question 4

0.5 / 0.5 pts

If mean and variance of Binomial distribution are 8,4 respectively. Then P(X=1) is

Question 5	0.5 / 0.5 pts
O 1/8	
O 1/16	
O 1/2	
1/4096	

probability that there are 3 customers between 9.30 A.M and 9.45 A.M?

0.5 / 0.5 pts **Question 6**

A fair and an unfair coin with P(T)=3/4 are tossed three times simultaneously . Let \boldsymbol{X} be a random variable which denote the number of heads shown by fair coin and Y denotes the number of heads shown by unfair coin then P(X=Y) is _____

- 0 1/2
- 0 136/512

Question 7	0.5 / 0.5 pts
Let the random variable 'X' follows r and standard deviation 13. What is t	
0.1717	
0.8716	
0.7176	
0.1617	
0.1617	
Question 8	0.5 / 0.5 pt

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?

4.5

3.5

0 1.5

2.5

128/512

Question 9	0.5 / 0.5 pts
A survey is conducted on 1300 students in a so proportion of students who are interested in taking course. The upper and lower limits are 0.746 are Calculate the point estimate and margin of error	ng a music nd 0.582.
O.464 and 0.282	
0.664 and 0.082	
O.264 and 0.482	
O 0.364 and 0.382	

If you want to test the null hypothesis that the mean is 100 versus the alternative that it is greater than 100 and you get a sample mean of 90, which is true? Cannot say anything, because the standard deviation and the sample size are needed Never reject the null hypothesis Always reject the null hypothesis Reject the null if n > 30, otherwise fail to reject

Quiz Score: 4.5 out of 5