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	20 minutes	4 out of 5

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

Score for this quiz: **4** out of 5
Submitted Mar 12 at 21:10
This attempt took 20 minutes.

Question 1 — 0.5 / 0.5 pts

When do you say that the distribution is positively skewed?

- ○ Mean < Median
- ◉ Mean > Median
- ○ None
- ○ Mean= Median

Question 2

0.5 / 0.5 pts

A fair coin is tossed three times. What is the probability of obtaining one Head and two Tails?

- (selected) 3/8
- 1/2
- 5/9
- 1/3

Question 3

0.5 / 0.5 pts

An experiment consists of two events E_1 and E_2 where $P(E_1)=0.35$ and $P(E_2)= 0.55$. what is the probability that event E_1 or event E_2 will occur if E_1 and E_2 are independent?

- 0.6075
- 0.9075
- 0.8075
- (selected) 0.7075

Question 4

0.5 / 0.5 pts

A pair of dice is thrown 4 times.If getting a doublet is considered success, Find the Probability of 2 success.

- 35/216
- 12/216
- 25/216
- 15/216

Question 5

0.5 / 0.5 pts

If a random variable X follows a Poisson distribution with parameter λ, what is the variance of X?

- λ
- λ^2
- $\frac{1}{\lambda}$
- 2λ

Incorrect

Question 6

0 / 0.5 pts

A joint probability density function of the random variable x, y and z is

F(x,y,z) = 8xyz, 0 < x, y, z < 1 then find P (x < y < z). (up to 2 places)

- 0.14 - 0.17
- 0.13 - 0.15

- (selected) 0.12 - 0.14
- 0.16 - 0.18

Question 7

0.5 / 0.5 pts

Let X be a normal random variable with mean zero and variance 9. If a = P (X > 3), then P (| X | ≤ 3) equals:

- a
- (selected) 1 - 2a
- 1 - a
- 2a

Question 8

0.5 / 0.5 pts

Sampling means following a sequence of stages. Which ONE of the following stages should come before the others?

- (selected) Examine the objective of the study
- Find suitable source for the population members
- Proceed with the fieldwork.
- Define the people of interest.

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.

- -4.722354 to 4.722354
- -1.133365 to 1.133365
- -1.888941 to 1.888941
- (selected) -2.575829 to 2.575829

Incorrect

Question 10

0 / 0.5 pts

1. If we accept a Null hypothesis, when it is false then this is an error of type _____

- BOTH
- Can't be determined
- II
- (selected) I

Quiz Score: **4** out of 5