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	42 minutes	5 out of 5

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

Score for this quiz: **5** out of 5
Submitted Mar 12 at 21:00
This attempt took 42 minutes.

Question 1 — 0.5 / 0.5 pts

The mean of ten numbers is 58 if one of the numbers is 40, what is the mean of other nine

- 120
- 15

- 60
- 88

Question 2

0.5 / 0.5 pts

In a school, 40% of the children like music and 24% of the children like dance. Given that 30% of those children like music also like dance, what percent of those children that like dance also like music?

- 50%
- 20%
- 70%
- 30%

Question 3

0.5 / 0.5 pts

In a job placement event, there are 1000 aspirants attending a company interview, out of which 500 are females. It is familiar that out of 500, 25% are eligible. Determine the probability that aspirant selected is eligible given that the selected aspirant is a female.

- 1/2
- 1/4
- 1/8
- 1

Question 4

0.5 / 0.5 pts

The probability of Arjun hitting a target is 0.10. If he fires 7 times then the probability of hitting the target at least once is _____

- (●) 0.5217
- ( ) 0.6423
- ( ) None of these
- ( ) 0.4563

Question 5

0.5 / 0.5 pts

If the probability of defective items made by a factory is 0.004, then the probability that less than 2 items are defective in the sample of 1000 items is

- (●) $5e^{-4}$
- ( ) $4e^{-6}$
- ( ) $4e^{-4}$
- ( ) $4e^{-\frac{1}{4}}$

Question 6

0.5 / 0.5 pts

Let X and Y have joint probability density function , f (x. y) = 4xy for 0<x<1 and 0 <y<1.Find P(Y<X)

- 2/3
- 1/6
- 1/2 (selected)
- 0

Question 7

0.5 / 0.5 pts

Let X be a random variable which represents the length of time that a Laptop will work before it needs charging . Assume X is normally distributed with variance 225 hrs and mean 100 hrs . If P(X<b)=0.10 then b is equal to

- 84.33
- 92.44
- None of these
- 80.77 (selected)

Question 8

0.5 / 0.5 pts

Consider the population proportion is 0.35 and the sample size is 60. Find the probability that the sampling distribution of proportion is less than 0.33.

- 0.2998
- 0.4708
- 0.5886
- (selected) 0.3745

Question 9

0.5 / 0.5 pts

An estimator is a random variable because it varies from:

- Population to population
- (selected) Sample to sample
- Population to sample
- Sample to population

Question 10

0.5 / 0.5 pts

A T-test sample has 8 pairs of samples. The distribution should contain

- (selected) 7 degrees of freedom

- 6 degrees of freedom
- 5 degrees of freedom
- 16 degrees of freedom

Quiz Score: **5** out of 5