

Quiz #2

Econometría 06216

Nombre: _____

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INSTRUCCIONES:

- Escoja la opción más adecuada.
- Usted cuenta con 5 minutos para resolver este quiz

1. The variance of \bar{Y} is given by:

- a. σ_Y^2/n .
- b. σ_Y/\sqrt{n} .
- c. s_Y .
- d. s_Y/\sqrt{n} .

Answer (a)

2. The sample average, as an estimator, is a random variable and:

- a. Is a single number, therefore it cannot have a distribution.
- b. Has a probability distribution called its sampling distribution.
- c. Has a probability distribution called the standard normal distribution.
- d. none of the above

Answer b

3. Which of the following assumptions about the error term is *not* part of the so called "classical assumptions"?:

- a. Independent variables are not stochastic.
- b. It is independent of the value of the regressor.
- c. Its value for any observation is independent of its value for any other observation.
- d. It has a normal distribution.

Answer (d)

4. The regression model includes a random error or disturbance term for a variety of reasons. Which of the following is NOT one of them:

- a. Measurement errors in the observed variables.
- b. Omitted influences on the dependant variable Y (other than the regressor X).
- c. Linear functional form is only an approximation.
- d. None of the above.

Answer (d)

5. If two estimators of the population mean of $X \sim (\mu, \sigma^2)$ are $\mu_1 = 2/3 \cdot \bar{X}$ and $\mu_2 = 1/3 \cdot \bar{X}$, where \bar{X} is the sample mean. We can say that:

- a. μ_1 is more biased than μ_2 .

- b. The estimator $(\mu_1 + \mu_2)$ is not a consistent estimator of μ .
- c. Both μ_1 and μ_2 are efficient estimators of μ .
- d. The Mean Square Error (MSE) of the estimator $(\mu_1 + \mu_2)$ is σ^2/n where n is the sample size.

Answer (d)