

Quiz #8
Heteroscedasticidad
Econometría 06216

Nombre: _____

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INSTRUCCIONES:

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

1. Which of the following assumptions of Gauss Markov theorem is violated in presence of heteroskedasticity:
- a. Each error term has different variance
 - b. Between all the error terms exist the same serial correlation
 - c. $E(\hat{\epsilon}) = \epsilon$
 - d. None of the above

Answer d).

2. If the error term is heteroskedastic, then the OLS estimators are:
- a. Inconsistent and efficient.
 - b. Unbiased and inefficient.
 - c. Consistent and biased.
 - d. inconsistent and efficient.

Answer b).

3. Suppose that the variance of the error term is given by $\sigma_i^2 = \sigma^2 Z_i^{1/2}$. Therefore the weight given to each observation employing Weighted Least Squares (WLS) will be:
- a. Z_i^2 .
 - b. $1/Z_i^{1/2}$.
 - c. $1/Z_i^{1/4}$.
 - d. Z_i^2 .

Answer c).

4. Under the null hypothesis of no heteroskedasticity, the Goldfeld – Quandt test statistic is close to:
- a. Minus one.
 - b. Zero.
 - c. Two.
 - d. None of the above.

Answer d)

5. The WLS method.
- a. Is a special case of OLS.
 - b. Assigns a weak influence to the small values of the dependant variable and a strong influence to the greatest values of the dependant variable.
 - c. Is a special case of the maximum likelihood method.
 - d. None of the above.

Answer d)