Quiz #3

Econometría 06216

Nombre: ______________________________

Profesor: Julio César Alonso

INSTRUCCIONES:

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

1. A regression model in which $100 \cdot \beta_1$ represents the expected percentage change in Y in response to a 1 unit increase in X_1:
   a. $Y = \beta_0 + \beta_1 X_1 + \varepsilon$.
   b. $ln(Y) = \beta_0 + \beta_1 X_1 + \varepsilon$.
   c. $Y = \beta_0 + \beta_1 Ln(X_1) + \varepsilon$.
   d. $Ln(Y) = \beta_0 + \beta_1 Ln(X_1) + \varepsilon$.

Answer (b)

2. An estimator $\hat{\mu}_Y$ of the population value μ_Y is consistent if:
   a. $\hat{\mu}_Y = \mu_Y$.
   b. $\hat{\mu}_Y$ is normally distributed in large samples.
   c. $E(\hat{\mu}_Y) = \mu_Y$.
   d. None of the above.

Answer (c)

3. If an estimator is BLUE, therefore:
   a. The estimator for the DGP is unbiased, more efficient than any other linear estimator and consistent.
   b. Its expected value is equal to the real value of the parameter that it estimates and is more efficient than any other linear estimator and consistent.
   c. The estimator for the DGP is unbiased, linear, and more efficient than any other linear estimator.
   d. All of the above.

Answer (d)

4. One of the assumptions of the Gauss Markov theorem is that the perturbations are not correlated with other perturbations, this means that:
   a. Each perturbation has the same variance.
   b. Between all the perturbations exists the same serial correlation.
   c. The perturbations do affect other perturbations.

   d. None of the above.

Answer (b)

5. A log-log model specification is preferable because:
   a. They always provide a better fit to the data.
   b. They are easier to estimate.
   c. Slopes can be interpreted as (constant) elasticities.
   d. A logarithm of a negative number doer not exist.

Answer (c).