Quiz #11 Modelos Logit y Probit Econometría 06216

Nombre:			

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INSTRUCCIONES:

- Escoja la opción más adecuada.
- Usted cuenta con 5 minutos para resolver este quiz
- 1. If you use the OLS method to estimate a model with a dependent dummy variable:
 - a. The estimates will be consistent and unbiased.
 - b. The OLS estimates are unbiased and present constant variance.
 - c. a) and b) are correct.
 - d. None of the above.

Answer c).

- 2. A latent variable is:
 - a. A dummy dependent variable.
 - b. A dummy independent variable.
 - c. A variable we cannot observe.
 - d. A discrete dependent variable used in a maximum likelihood model.

Answer c).

- 3. Which of the following assumptions related to the distribution of the error term corresponds to a logit model.
 - a. The error term follows a normal distribution.
 - b. The error term follows a logistic distribution.
 - c. The error term follows a chi-square distribution.
 - d. None of the above.

Answer a).

- 4. The difference between a logit and probit model is:
 - a. The estimation method.
 - b. The assumption on the error term behavior.
 - c. There is no difference.
 - d. (a) and (b) are correct.

Answer b)

- 5. Comparing the Maximum Likelihood Estimation (MLE) of unknown parameters with the Ordinary Least Squares (OLS) estimation of unknown parameters, which of the following statements is false?
 - a. OLS chooses the best-fitting line by minimizing the sum of squared vertical deviations of each Y value from the line that is chosen.

b. MLE chooses the best-fitting line by maximizing the logarithm of the joint probability of observing the n independent observations on Y in the sample.

- c. If we assume that the errors in a typical regression model are normally distributed, then the best-fitting line by MLE will have exactly the same intercept and slope as the best-fitting line by OLS.
- d. MLE can be considered as a special case of OLS methods.

Answer d)

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