2

Ouiz #6

Econometría 06216

Nombre:					

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INSTRUCCIONES:

- Escoja la opción más adecuada.
- Usted cuenta con 5 minutos para resolver este quiz
- I want to test whether a group of three dummy variables to represent one feature of my model, is statistically significant as a group (e.g. if it was the influence of appearance I might use dummies for height, weight and looks). Should I:
 - a. Decide by looking at how big the R squared is.
 - b. Decide by adding up the coefficients of the dummies to see if the total is more than
 - Decide the group is important only if all the individual 't' ratios are statistically significant.
 - d. Conduct an 'F' test on the restriction that all three coefficients simulateously zero.

Answer (d)

- To account for seasonality in a linear regression model in presence of quarterly data you could:
 - a. Include an intercept plus four seasonal dummies.
 - b. Include an intercept plus three seasonal dummies.
 - c. Add a series consisting of 1,2,3,4 repeating.
 - d. None of the above.

Answer (b)

- 3. Which of following statements are true?:
 - a. A dummy variable can be used to test hypotheses.
 - b. The inclusion of a dummy variables does not alter the properties of the OLS model.
 - c. You can not have more than four dummy variables in a regression equation.
 - d. a) and b) are correct.

Answer (d)

- 4. Which of the following is an example of a dummy variable?:
 - a. A variable coded as 0 if the subject is male and 1 if is female.
 - A variable coded as 0 if someone was over 16 years old and 1 if they were under 16 years old.
 - c. A variable coded as 1 if a person was the first born child in their family and 0 if they were the second or later child.
 - d. All of the above.

Answer (d)

5. Given the following model:

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$$y_i = \alpha_0 + \alpha_1 x_{i1} + \alpha_2 (x_{i1} D_i) + \alpha_3 D_i + \varepsilon_i$$

if α_2 and α_3 are different from zero, then.

- a. Both the slope and intercept differ for observations whose D equals 1 from those observations whose D equals zero.
- b. For observations whose D equals 1, the intercept is $(\alpha_0 + \alpha_3)$.
- c. One could say that the sample should be split between D equal to 1 and D equal to 0 observations.
- d. All of the above.

Answer (d)