

Quiz # 5
Chapter 9
Suggested Answers
Group 3
Econometrics 06216

Name _____

Notes:

- Choose the best answer
- You have 5 minutes to solve out this quiz

1. According to the book, what kind of distribution follows a test that involves more than two parameters?
 - a. Normal Distribution
 - b. Chi-square distribution
 - c. t distribution
 - d. None of the above

Answer: d

2. In the context of a linear regression model, a computed F-statistic will be:
 - a. Positive in all cases
 - b. positive if the null hypothesis is true.
 - c. negative if the null hypothesis is false.
 - d. of either sign whether the null is true or false, due to the effects of random

Answer: a

3. When the coefficients of a regression relationship change over time, we call that:
 - a. Time series analysis
 - b. Regime shift
 - c. Structural time coefficients

- d. Time shift

Answer: b

4. In order to perform the Chow test, you must know
 - a. The adjusted R^2 value
 - b. In what point occurs the fracture in the sample
 - c. The Global F for restricted and unrestricted regression
 - d. a and b are true

Answer: b

5. One representation for the F test is (according to the text book's notation):

$$a. F = \frac{\frac{SSR^c - SSR^u}{r}}{\frac{SSR^c}{n - k - 1}}$$

$$b. F = \frac{\frac{SSR^{c'} - SSR^u}{r}}{\frac{SSR^c}{n + k + 1}}$$

$$c. F = \frac{SSR^c + SSR^u}{SSR^c}$$

- d. None of the above

Answer: d