Quiz # 12
Suggested Answers
Econometrics 06216

Name______________________________

- Choose the **MOST CORRECT** answer
- You have 5 minutes to solve out this quiz

1. We use an F-test when we want to::
   a. Test joint significance
   b. Test linear restrictions
   c. Test hypothesis that involves one coefficient.
   d. All of the above

2. Is a **Gauss-Markov assumption** in matrix form:
   a. $\hat{\beta} = \left[X^t X \right]^{-1} X^t Y$
   b. If the estimator is unbiased, all the variation comes from estimation errors.
   c. If the estimator is biased, all the variation comes from estimation errors.
   d. $E\left[\varepsilon\varepsilon^T \right] = mI$

3. The best linear unbiased estimator of a parameter is:
   a. The one that isn´t BLUE
   b. The one that is unbiased and have the **smallest** variance.
   c. The one that is unbiased and have a **smaller** variance than other.
   d. The one that is unbiased.

4. Cross sectional data refers to:
   a. Data drawn from a population observed at a moment in time.
   b. Data drawn from a population observed across several moments in time.
   c. Data drawn from a population collected over time.
   d. Data drawn from a section of population collected over time.

5. ¿Cuál de las siguientes expresiones **no** es una propiedad de las matrices**,** tenga en cuenta que A, B y C son matrices cuadradas?
   a. $ABC = CBA$
   b. $A + B + C = C + B + A$
   c. $\det A^{-1} = \left(\det(A)\right)^{-1}$
   d. Todas las anteriores son propiedades.