Assignment 1

The due date for submitting this assignment has passed.

Due on 2021-02-03, 23:59 IST.

Week 1
Introduction to Econometrics and econometric analysis (Part 1)

Week 2
Different steps in econometric analysis (Part 1)

Week 3
Different steps in econometric analysis (Part 2)

Week 4
Estimation of properties of the estimators of the population parameters (Part 1)

Week 5
Maximizing properties of the estimators of the population parameters (Part 2)

Quiz: Assignment 1

Week 6
Feedback Form

Week 7
Lecture Notes

Week 8
Lecture Notes

Week 9
Lecture Notes

Week 10
Lecture Notes

Week 11
Lecture Notes

Week 12
Lecture Notes

Downloaded videos

Test transcripts

1. Economics requires the application of
   - Mathematical tools
   - Statistical tools
   - Tools of economic theory
   - Both B and C
   - Both A and B
   No. the answer is incorrect.
   Accepted Answer: Both A and B

2. Objective of Econometric Analysis include
   - Drawing inferences about dependent and independent variables
   - Drawing inferences about population parameters from the sample estimates
   - Estimation of causal relationship between dependent and independent variables
   - Forecasting
   - C and D
   No. the answer is incorrect.
   Accepted Answer: C and D

3. Estimation of a single entity, over a period of time is called
   - Cross-sectional data
   - Time-Series data
   - Panel data
   No. the answer is incorrect.
   Accepted Answer: Time-Series data

4. (B) Pooled data indicate combination of time series and cross-sectional data
   (A) Panel data is a special type of pooled data
   (C) Some cross-section unit is surveyed over one time period in panel data
   Which among the above statement(s) is/are correct?
   - Only (B) is correct
   - Only (A) is correct
   - Only (C) is correct
   - Both (B) and (C) are correct
   No. the answer is incorrect.
   Accepted Answer: Both (B) and (C) are correct

5. What is $i$ in an econometric model?
   - Error term
   - Determinate term
   - Random term
   - $A$, $B$, $C$, $D$
   No. the answer is incorrect.
   Accepted Answer: $A$, $B$, $C$, $D$

6. If $Y_i = \beta_0 + \beta_1 X_i + \epsilon_i$
   - Represents the missing values of $Y$
   - Acts as a proxy for all the omitted variables that may affect $Y$
   - Acts as proxy for important variables that affect $Y$
   - Represents measurement errors in independent and dependent variables
   - Both B and D
   No. the answer is incorrect.
   Accepted Answer: Both B and D

7. If $Y_i = \beta_0 + \beta_1 X_i + \epsilon_i$, can take values that are
   - Positive
   - Negative
   - Zero
   - $A$, $B$, and $C$
   No. the answer is incorrect.
   Accepted Answer: $A$, $B$, and $C$

8. Which of the following best defines an error term?
   - Mean is not equal to $0$ and it follows a normal distribution
   - It is not unbiased
   - It has to be unbiased and mean is not equal to $0$
   - It is non-stochastic and follows normal distribution with $0$ mean
   - It is stochastic with zero mean and follows a normal distribution
   No. the answer is incorrect.
   Accepted Answer: It is stochastic with zero mean and follows a normal distribution

9. Which among the following represent the desirable properties of an estimator?
   - Unbiased and variance should be equal to 0
   - Variance should be greater than 0 but less than 1
   - Unbiased and variance should be greater than 0 but less than 1
   - Unbiased and minimum variance
   No. the answer is incorrect.
   Accepted Answer: Unbiased and minimum variance

10. If $Y_i = \beta_0 + \beta_1 X_i + \epsilon_i$, and $\beta_1$ represents
    - Population parameters
    - Sample statistics
    - Estimators
    - Estimation
    - Both B and C
    No. the answer is incorrect.
    Accepted Answer: Estimation