

REV-01
MEC/02/05

2024/07

MA ECONOMICS
SECOND SEMESTER [SPECIAL REPEAT]
BASIC ECONOMETRICS
MEC - 204

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1.30 hrs.

Full Marks: 35

Time: 15 mins.

(Objective)

Marks: 10

Choose the correct answer from the following:

1 × 10 = 10

- One of these is not a part of classical assumptions?
 - Values taken by regress and Y is fixed
 - Regression model is linear in parameter
 - Error term has mean 0
 - Error term has a constant variance
- BLUE implies best, linear and _____ estimator.
 - Static
 - Unbiased
 - Unique
 - Uniform
- The r^2 measures the percentage of total variation in
 - X explained by Y
 - Y explained by betas
 - Y explained by u_i
 - Y explained by the regression model
- The least square estimators are
 - Period estimators
 - Point estimator
 - Population estimator
 - Popular estimator
- Multicollinearity is limited to
 - Cross section data
 - Time series data
 - Pooled data
 - All of the above
- Multicollinearity is essentially a
 - Sample Phenomenon
 - Population Phenomenon
 - Both a and b
 - Either a and b
- Heteroscedasticity is more likely a problem of
 - Cross section data
 - Time series data
 - Pooled data
 - All of the above
- If the Durbin Watson d statistic is found to be equal to 0, this means the first order Autocorrelation is
 - Perfectly positive
 - Perfectly negative
 - Zero
 - Negative

9. Estimating all the equation in a simultaneous equation model simultaneously is known as
- a. Simultaneous equation model
 - b. Full information method
 - c. Single equation model
 - d. Least square estimation method
10. In Time series analysis data are collected
- a. Over a period of time
 - b. At a point of time
 - c. Both a and b
 - d. None of the above

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(Descriptive)

Time : 1 Hr. 15 Mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

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| 1. Estimate the parameters of Ordinary Least Square Estimator. | 5 |
| 2. Estimate the Three variables or Multiple variable regression model. | 10 |
| 3. Explain the assumptions of Classical Linear Regression Model and BLUE. | 10 |
| 4. Estimate Darwin Watson d statistic. Mention its limitation. | 10 |
| 5. What is Time series analysis? Explain Random walk model with drift and without drift. | 10 |

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