

MA ECONOMICS
SECOND SEMESTER
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

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