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Name :.....

INTEGRATED M.A EXAMINATION, FEBRUARY 2024 2020, 2021 ADMISSIONS SUPPLEMENTARY (SAY) SEMESTER V - CORE COURSE Social Sciences - Economics EC05C23IM20 - Econometrics - I

Time: 3 Hours Maximum Weight: 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

- 1. What is the difference between statistics and econometrics?
- 2. Write the 3 aims of econometrics.
- 3. What do you mean by linearity in econometrics?
- 4. What do you mean by residual?
- 5. What do you understand by 'covariance' between two estimators $\beta1$ and $\beta2$?
- 6. Difference between regression and correlation.
- 7. What is level of significance?
- 8. What is p value?
- 9. Define raw r2.
- 10. Write down the least square estimator for regression through origin model.

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Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

- 11. Explain the relationship between economic theory, mathematics, and economic statistics.
- 12. Difference between Statistical relationship and Deterministic relationship.
- 13. Explain the concept of Linearity.
- 14. Difference between SRF and PRF?
- 15. Explain the assumptions of Classical Linear Regression Model
- 16. Explain χ 2 test of testing the significance of regression coefficients.
- 17. Explain the idea of interval estimation.
- 18. What is Regression through Origin Model?

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

- 19. Explain the nature and scope of econometrics.
- 20. Give an account of the origin and interpretation of regression analysis.
- 21. Explain the assumptions of OLS Method.
- 22. Explain the two approaches of hypothesis testing.