Mid-West University

Examinations Management Office

Birendranagar, Surkhet

End Semester - Examination, 2080

Subject: DE 526- Econometrics I

Level/program: Master (M.A)

Semester: II

Time: 3 Hours

FM: 60

PM: 30

10x1=10

Candidates are required to answer the questions in their own words as far as practicable.

Attempt ALL of the following Very Short Answer Questions.

1. Why is Gauss-Markov Theorem called BLUE?

- 2. What do you mean by unbiasedness in estimation?
- 3. Define parameter.
- 4. What is dummy variable trap?
- 5. Define the autoregressive model.
- 6. Define Slutsky's theorem.
- 7. What is asymptotic normality?
- 8. State Engle's Law.
- 9. Define dynamic analysis.
- 10. What is shadow price?

Attempt any THREE of the Following Short Questions.

3x8 = 24

- 11. Define hypothesis testing. Differentiate between \mathbb{R}^2 and \mathbb{R}^2 .
- 12. Explain Koyck Lag distribution model.
- 13. Estimate the parameter of following regression equation by OLS method:

$$Y = \beta_0 + \beta_1 X + u$$

14. Explain Cobb-Douglas production function with properties.

Attempt any TWO of the Following Long Questions.

2x13 = 26

- 15. Define heteroscedasticity. Explain Almone Distributed Lag model.
- 16. Obtained regression model is Y = -0.28 + 0.91 X + U. Check the autocorrelation by

X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Y	2	2	2	1	3	5	6	6	10	10	10	12	15	10	11

17. Explain the methodology of econometrics.

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