

2007

ECONOMICS

PAPER-XVIII

Full Marks : 100

Time : 4 hours

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers whenever necessary

(Econometrics-N)

[Marks : 50]

Answer Q. No. 1 and any two from the rest

1. Answer any *four* questions:

5×4

- (a) What problems are faced by econometricians in the measurement of variables in the empirical estimation of production function ?**
- (b) Describe the mathematical forms of investment function that are empirically estimated.**

(Turn Over)

- (c) Define the concept of equally distributed **equivalent income and** describe Atkinson's **measure of inequality**.
- (d) What types of data **limitations** do you face in the **empirical estimation** of the cost **function**?
- (c) **Write a note on MPS model.**
- (f) **Explain the problem of least -square bias that arises in the estimation of short-run consumption function.**
- (g) **What is Human Development Index? How is it constructed?**
- (h) Compute from the Larenz curve **the maximum and minimum values** of Gini-coefficient **as a measure of income inequality.**
2. (a) **Write a note on trans-lqg production function and comment on the studies for Indian industries.**
- (b) **Derive the conditions for constant returns to scale (CRS) in the trans -log production function for a two-input case.**
- (c) **How will you test the presence of CRS in the translog production function ?** **6+6+3**
3. (a) **How would you solve the identification problem in the estimation of the demand function ? (Present both the graphical and mathematical interpretations).** **10**

- (b) How would you measure Technical progress from the direct estimation of the production function ? 5
4. (a) How would you solve the problems in the estimation of cost function ? 8
- (b) How do you define Engel's law? Bring out clearly the problems and its solutions in the empirical establishment of Engel's law. 7
5. (a) Describe Klien-Goldberger model. 8
- (b) Present a short note on the trend in macro-econometric model construction. 7

(*Agricultural Economics IV*)

[Marks : 50]

Answer any **three** questions

1. **Discuss** different **measures** of instability of agricultural production. Do you think that instability of agricultural production has increased in recent years in India? Argue in favour of your answer. 10+6
2. Examine whether there is any relationship between agricultural growth and equity in India. What are your suggestions for promoting equity along with agricultural growth ? 12+4
3. Discuss the role of **various institutions in agricultural** development in India. 16

4. Explain the factors affecting labour absorption in agriculture. Examine the nature and trends in agricultural labour absorption in India. 10+6
5. (a) Discuss the possible factors behind the inverse relationship between farm size and productivity. 10
- (b) Distinguish technical efficiency, price efficiency and overall efficiency of a farm ? 6
6. What do you mean by intersectoral terms of trade (TOT) ? What are the methodological **issues in the measurement** of TOT? **Discuss** how the TOT has moved over years **in India.** **2+8+6**