

Scéimeanna Marcála Scrúduithe Ardteistiméireachta, 2003

Eacnamaíocht Ardleibhéal Talmhaíochta

Marking Scheme Leaving Certificate Examination, 2003

Agricultural
Economics Higher Level

Leaving Certificate Examination 2003

Higher Level Agricultural Economics

MARKING SCHEME and NOTES for use with the Marking Scheme

- There is no suggestion that the enclosed notes are exhaustive or definitively complete. They are not model or suggested answers.
- Further <u>relevant</u> points presented by candidates will be marked and rewarded on their merits.
- The detail required in any answer is determined by the context and the manner in which the question is asked and by the number of marks assigned to the answer in the examination paper. Requirements may therefore vary from year to year.

STATE EXAMINATIONS COMMISSION

LEAVING CERTIFICATE EXAMINATION 2003

AGRICULTURAL ECONOMICS - HIGHER LEVEL

MARKING SCHEME

PART 1 (120 MARKS)

(a Shortage → Prices ↑ → Demand↓ → Supply ↑
 OR
 (b) Surplus → Prices ↓ → Demand ↑ → Supply ↓
 8 MARKS

2.Capital Formation is the additional land improvements, buildings, breeding stock, machinery and equipment.

OR

The stock of capital in farming is increasing over time, stating two examples.

8 MARKS

3.Estimates contain an element of personal borrowings, which cannot be quantified.

OR

Estimates need to be adjusted for monies received by farmers in interest bearing accounts.

8 MARKS

- **4.**The low **responsiveness** of farm production to price change is due to the low mobility of resources into and out of farming. **8 MARKS**
- **5.** The demand **curve** facing an individual farmer is a horizontal straight line.

4 MARKS

No matter how much the individual sells, the price remains the same.

OR The demand curve is infinitely price elastic/ farmers are price takers.

Any ONE 4MARKS

6. Opportunity cost is the earnings (OR revenue foregone) in the next best acceptable employment. **4 MARKS**

EXAMPLE – Industrial wage OR earnings off-farm.

7. Milk Production in Ireland is seasonal because of spring calving and dependence on grass-growth.

4 MARKS

DISADVANTAGES: I) under-utilization of processing capacity

II) under-utilization of labour

III) extra storage costs

IV) continuous production of short-life dairy products is constrained.

ANY ONE 4 MARKS

8. I) Family labour

II) Family Capital

2 X 4 MARKS

9. Real interest rates are nominal interest rates, which have been adjusted for inflation.

8 MARKS

- 10. Non-cash items in the calculation of family farm income include:
 - i) changes in inventories
 - ii) household consumption of own farm produce
 - iii) depreciation

ANY TWO 2 X 4 MARKS

- 11. Price cost squeeze is the tendency over time for the price of inputs to increase more rapidly (or fall more slowly) than product prices.

 8 MARKS
- 12. Indirect effects of growth in farm output:
 - i) growth in the purchasing of agricultural inputs

4 MARKS

ii) growth in processing or distribution of agricultural products

4 MARKS

13. Repayment of VAT on farm inputs:

i) VAT rebate on farm product sales

4 MARKS

ii) Farmer may register in order that all the VAT on inputs is repaid

4 MARKS

14. Productivity ratios may give misleading results because they ignore many inputs involved in production

OR because they have not been adjusted over time for inflation

15. Variable import levies move in the opposite direction to the import price,

4 MARKS

So that a product cannot enter below a minimum price, no matter how cheap it is on external markets.

4 MARKS

16. A farmer receives a lower price for output above his/her quota

4 MARKS

The price is reduced in successive stages or **tiers** until at very high levels of production a very low price is paid.

4 MARKS

- 17. The marginal revenue product is the contribution of each extra unit of resource.
 OR Extra income flow per unit of input OR Marginal Product multiplied by the Price of the product.
 8 MARKS
- 18. Two powers of the European parliament:
 - i) tables questions to the Commission
 - ii) removes the Commission
 - iii) limited say in relation to the EU budget
 - iv) final say on none obligatory policies

ANY TWO 2 X 4 MARKS

- **19. Amount of export refunds** = surplus multiplied by the difference between the intervention price and the world market price. **8 MARKS**
- 20. Mansholt Plan proposed a programme of highly selective investment subsidies to enable potentially viable farmers to become viable,
 4 MARKS
 And these would be accompanied by incentives to non-viable farmers to retire.

STATE EXAMINATIONS COMMISSION

LEAVING CERTIFICATE EXAMINATION 2003 AGRICUTURAL ECONOMICS - HIGHER LEVEL MARKING SCHEME

PART II

QUESTION 1

- a) I) Post farm-gate sectors of the food chain
 - -processing
 - -distribution
 - -imports / exports

ANY TWO 2 X 5 MARKS

- II) Price increases in post farm-gate sectors
 - -increase in cost of raw materials
 - -increase in wages and salaries
 - -increase in processing costs, e.g. energy
 - -increase in price of imports ANY TWO 2 X 5 MARKS GRADED

b) I) Farm-gate price as % of retail price (2000)	42.75	5 MARKS	
Post farm-gate prices as % of retail price (2000)	71.50	5 MARKS	
Total Retail Price	114.25	5 MARKS	
Food Prices at Retail Level	+14.25 %	5 MARKS	

II) Improvements in outcomes for farmers:

- i) Higher farm-gate prices
- ii) Lower price increases in post farm-gate sectors
- iii) Reduction in levies imports

ANY ONE 10 MARKS

QUESTION 2

a) Supply curve ON DIAGRAM 18 MARKS

Demand curve

b) SURPLUS: 300,000 tonnes 12 MARKS

c) Cost of disposal: 300,000 X (E120 – E70) 10 MARKS

300,000 X E50 €15,000,000

d) Quota = 200,000 tonnes 5 MARKS

e) Supply Curve for Quota ON DIAGRAM 5 MARKS

[50 Marks]

QUESTION 3

a) Resource mobility as an economic issue:

If resources cannot move freely from one use to another as economic circumstances change, then resources may be employed in sub-optimal ways, **OR** there may be less efficient utilization of resources.

10 MARKS

b) i) Labour - mobility depends on the category of labour 4 MARKS

Farm employees - very mobile if income is adequate 4 MARKS

Family relatives - mobile depending on income OR family circumstances

4 MARKS

Farmers - limited mobility because of:

unwillingness to do off-farm work

OR non-availability of off-farm employment in the locality

OR inability to do non-farm work

ANY ONE 4 MARKS

ii) Land - movement into farming by reclamation 4 MARKS

- movement out of farming restricted by limited alternative uses

iii) Capital - movement into farming depends on returns

4 MARKS

- movement out of farming depends on its rate of depreciation

4 MARKS

Land and buildings - depreciation is slow

4 MARKS

Machinery and Equipment – wears out rapidly OR Breeding stock - can be readily run down

4 MARKS

[50 Marks]

QUESTION 4

a) "Adjustment" means the re-organisation of existing resources.

10 MARKS

Explanation by means of examples

- i) Changes in resource-mix
- ii) Changes in enterprise-mix
- iii) Changes in farm-size

ANY TWO 2 X 5 MARKS

b) FORCES - Economic - differential demand for luxury goods and food 10 MARKS

- change in demand within the food group

-Technological - substitution of capital for labour enables farmers to operate larger farms 5 MARKS

Facilitated by early retirement of farmers

and/or mobility of operators between farms and/or between farming and non-farming

5 MARKS

10 MARKS

QUESTION 5

a) i)

Quarter	1	2	3	4	5	6	7	8
Payments/Outlays	4	3	2	5	8	2	4	5
Receipts	1	4	3	2	3	6	4	2
Balance	-3	1	1	-3	-5	4	0	-3
Cumulative Balance	-3	-2	-1	-4	-9	-5	-5	-8

16 MARKS

Maximum Bank Overdraft = € 90,000

4 MARKS

ii) Reasons for non-qualification for a bank overdraft:

The overdraft is not cleared at any time during the eight quarters

OR The negative balance has increased over the eight quarters

6 MARKS

b) Types of farm budgets

i) Partial budgets

2 MARKS

Function - the farmer wishes to find out whether or not some alteration in his/her farming system can be brought about which will raise his/her income

5 MARKS

ii) Complete budgets

2 MARKS

Function - used for the purpose of deciding on the most suitable plan or combination of enterprises for a farmer who is starting from scratch

5 MARKS

iii) Capital budgets

a) cash flow

1 MARK

b) investment appraisal

1 MARK

Function -a) to determine if the funds are available to enable the plan to be carried out /financial feasibility

4 MARKS

c) to determine the economic returns to the investment in the plan/profitability

4 MARKS

QUESTION 6

a) CALCULATION OF INCOME GAP:

Average Industrial Wage €25,000

Farm income per Family Worker = $\underbrace{\notin 2,000,000,000}_{110,000}$ = $\underbrace{\notin 2,000,000,000}_{110,000}$

10 MARKS

Income Gap - Absolute = €25,000 - €18,182 = €6.818

5 MARKS

Percentage = $\frac{\text{€6,818}}{\text{€25000}}$ = 27%

5 MARKS

b) Limitations involved in comparing the absolute income levels

- i) Valuation of own farm produce consumed in farm household Retail Value V Wholesale value
- ii) Increase in non-farming income coming into households
- iii) Farmers who are major property owners are better off than people on the same income who do not own property
- iv) Tax burden: PAYE V Self Employed

(ANY 2 X 10 MARKS)

j) Alternative way of assessing the income position of Farmers:

Comparison of Relative Income Movements over time:

The comparison of farmers' income over time relative to the incomes of other groups in society.

5 MARKS

This method lessons the pitfalls involved in the comparison of absolute income levels i.e. non-farm household income/the possession of wealth/ precise measurement of the farm workforce.

5 MARKS