

2019 JUNE EXAMINATIONS

Faculty Life Sciences

Department Crop Science

LCS 1204 Introduction to Agricultural Economics

Duration: 3 Hours

Examiner: Olga Mapanje

INSTRUCTIONS TO CANDIDATES

- 1. Answer ALL the FIVE questions in this question paper.
- 2. Start the answer to each full question on a fresh page.
- 3. Each question carries 20 marks.
- 4. This question paper comprises 4 printed pages including cover page.
- 5. SPECIAL REQUIREMENTS: CALCULATOR, AND RULER

QUESTION 1

a) Assuming a closed economy with firms, households, and the government: with the aid of a clearly labelled diagram, outline the flow of activities in that economy.

[8]

b) What is the difference between a Command economy and a Market economy?

2]

c) The agricultural sector of many developing economies in Sub-Saharan Africa is changing rapidly. Give an outline of some of the most **important trends** in these agriculture-based economies. [10]

QUESTION 2

- a) With the aid of clearly labelled diagrams, explain the difference between 'change in demand' and 'change in quantity demanded.' [2]
- b) Give any one exception of the Law of Demand. [1]
- c) A study of the tobacco industry revealed that a 10% increase in cigarette prices would cause a 5% decrease in cigarette consumption. What is the price elasticity of demand for cigarettes? [2]
- d) Explain why the concept of **Elasticity of Demand** is important in International Trade.

[3]

- e) If the demand of farm products is highly price **inelastic**, a bumper crop may reduce farm incomes. Illustrate this on a graph and explain. [2]
- f) Give any one determinant of the supply of agricultural products by smallholder farmers in Zimbabwe. [1]
- g) Graphically explain the following relationships, using relevant examples from Zimbabwean agriculture:
 - i. Factor- factor relationship [3]
 - ii. Factor- product relationship [3]
 - iii. Product-product relationship [3]

QUESTION 3

Table shows hypothetical cost and revenue data for the production of maize by Mr Nyathi, a farmer in Filabusi. Quantity of maize (Q) is given in tonnes and costs/ revenues are in dollars.

Q	T.V.C	T.F.C	T.C	T.R	M.R	M.C	Profit
0	0		1000	0	0	0	
1			2000	1700			
2			2800	3300			
3			3500	4800			
4			4000	6200			
5			4500	7500			
6			5200	8700			
7			6000	9800			
8			7000	10800			
9			9000	11700			

- a) Copy and complete the table by populating the TVC, T.F.C, M.R, M.C and Profit columns. [5]
- b) Mr Nyathi sells his maize in a **perfectly competitive market** at Esigodini Growth Point. Give a detailed outline of the main characteristics of this market. [10]
- c) Graphically illustrate how Mr Nyathi will **maximize** his profits in the short run. (**NB.** Do not use the cost/ revenue data given above, draw the general graphs)

[3]

d) Suppose that in a perfectly competitive maize industry the Government of Zimbabwe (GoZ) decides to set a price floor. Draw and label a diagram showing the price floor set by the government.

QUESTION 4

a) What do you understand by the term '**Opportunity Cost?**' The market price of unshelled groundnuts is \$3 a bucket, and the market price of maize is \$5 a bucket. A farmer can produce 200 buckets of either groundnuts or maize. If the farmer chooses to produce maize, what is his opportunity cost?

[4]

- b) In economics, it is assumed that individuals (consumers/ producers) are 'rational.' Explain what is meant by 'rational behaviour' of consumers. [2]
- c) Differentiate between Total Utility and Marginal Utility.

[2]

d) State the Law of Diminishing Marginal Utility?

[2]

e)	Give	[3]	
f)	Draw	separate Indifference Curves to illustrate the following ty	pes of goods:
	i.	Imperfect substitutes	[2]
	ii.	Perfect substitutes	[2]
	iii.	Perfect compliments	[2]
QUES	STION	5	
a)	Defin	e the following macroeconomic variables:	
,	i.	Gross Domestic Product	[2]
	ii.	Inflation	[2]
b)	Expla	in what you understand from the following terms and in each c	ase give a
	remed	ly/ solution that can be adopted if it occurs in agriculture:	
	i.	Tragedy of the Commons	[3]
	ii.	Externalities	[3]
c)	Expla	in the role that the government plays in the following cases:	
	i.	Promoting and securing competition	[3]
	ii.	Providing public goods	[3]
	iii.	Protecting against externalities	[3]
	iv.	Stabilizing growth in the economy	[3]