Name:	Index No
Signature:	
527/1	
PRINCIPLES	
AND	
PRACTICES OF	
AGRICULTURE	

STANDARD HIGH SCHOOL ZZANA

Uganda Certificate of Education

Principles and Practices of Agriculture

(THEORY)

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

This paper consists of part **A** and **B**. Attempt **all** questions in **Part A** and **four** questions from part **B** including atleast **one** question from each section.

For question 1, write the letter corresponding to the **best** correct alternative in the box provided.

For questions 2 to 5, write all answers in the spaces provided.

For Examiner's use only					
Part / Question	Marks	Examiner's No. & signature			
Part A:					
Part B: No.					
No.					
No.					
No.					
Total					

PART A: (20 marks)

Answer all questions in this part.

For question 1, write the letter corresponding to the best answer in the box provided.

For questions 2 to 5, write all answers in the spaces provided

1.	(a)	Whi	ch one of the following quickens rooting in cutting?	
		A.	Enthylene dibromide.	
		B.	Indole acetic.	
		C.	Phosphate fertilizer.	
		D.	Auxins.	
	(b)	Whi)	
		A.	It is connected to the valves by connecting rod.	
		B.	It revolves much faster than the crank shaft.	
		C.	It controls the opening and closing of the valves.	
		D.	It controls the movement of the pistons.	
	(c)	In ar	nimal nutrition, the biological valve of protein is the proportion of	of protein;
		A.	digested and absorbed in the body.	
		B.	absorbed and retained in the body.	
		C.	used for growth.	
		D.	used as energy source.	
(0	(d)	The	monetary value attached to the farmer's own labour and manage	ment is
		A.	an explicit cost.	
		B.	a variable cost.	
		C.	an implicit cost.	
		D.	a marginal cost.	
				02 marks)

(a)	Define the term specialisation.	(01 mark)
••••		
		•••••
(b)	State four advantages of specialization in agricultural undertaking.	
	(i)	
••••	(ii)	
••••	·····	
••••	(iii)	
	(iv)	
••••		
	ve four considerations to make in order to ensure high quality of produce vesting.	ce during (04 marks)
(i)		
(ii)		••••••
(iii))	
		• • • • • • • • • • • • • • • • • • • •
(iv))	

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1.	Sugg	est four ways of maintaining clean water supply on the farm.	(04 marks)
	(i)		
	(ii)		
	(iii)		
5.	(a)	List six causes of low soil productivity.	(03 marks)
		(i)	
		(ii)	
		(iii)	
		(iv)	
		(v)	
		(vi)	
	(b)	State four functions of progesterone hormone in farm animals.	(02 marks)
		(i)	
	•••••	(ii)	
		(iii)	
		(iv)	

PART B: (80 marks)

Answer **four** questions from this part, including at least **one** from each section.

Additional questions answered will **not** be marked.

SECTION I

MECHANISATION AND FARM MANAGEMENT

- 6. (a) Discuss the measures that should be taken by Uganda government to stabilise the market price of agricultural commodity. (12 marks)
 - (b) What problems would be encountered in implementing the measures you have discussed? (08 marks)
- 7. (a) What are the factors that affect the quantity of a commodity demanded for? (12 marks)
 - (b) What is meant by "Elasticity of demand"? (02 marks)
 - (c) Mr. Musoke bought 20kg of rice for his family members when the price was 1,000/= each kilogram. When the price rose to 1,500/= per kilogram he bought 15 kilograms. Calculate the elasticity of demand. (06 marks)
- 8. (a) What are the advantages and disadvantages of using animal power on farms? (08 marks)
 - (b) Explain the factors to consider so as to obtain optimum output from animal power. (12 marks)

SECTION II

CROP PRODUCTION

- 9. (a) Explain factors that qualify a pasture species to be planted in a pasture land. (10 marks)
 - (b) How can one improve the already established pasture? (10 marks)
- 10. (a) Explain the methods of applying fertilizers in the soil. (12 marks)
 - (b) Suggest ways through which nutrients from the soil can be lost. (08 marks)
- 11. (a) Explain the cultural methods of controlling weeds. (12 marks)
 - (b) Give reasons why frequent cultivation is not recommended in crop production. (08 marks)

5 Turn Over

SECTION III

ANIMAL PRODUCTION

- 12. (a) Give reasons why output of indigenous cattle in Uganda is low. (10 marks)
 - (b) What would you advise the government to take in order to improve on the production of animals? (10 marks)
- 13. (a) Explain how ruminants and micro organisms in the rumen benefit from their symbiotic relationship. (10 marks)
 - (b) Give the differences between the ruminants and non ruminants. (10 marks)
- 14. (a) Outline ways in which disease may spread in a poultry flock. (12 marks)
 - (b) Describe the symptoms and control of Newcastle disease. (08 marks)