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(Do not write your School/ Centre Name or Number anywhere on this booklet.) 527/1

PRINCIPLES &
PRACTICES OF
AGRICULTURE
(Theory)
Paper 1
Oct./Nov. 2022

21/2 hours



UGANDA NATIONAL EXAMINATIONS BOARD Uganda Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE (THEORY)

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Answer all questions in part A and four questions from part B, including at least one question from each section.

	Fo	r Examir	ners' Use Only
Part	Question	Marks	Examiner's Signature & No.
A	No. 1-5		
	No.	1/4/1	
D	No.	++	Maria Allanda
В	No.		
	No.		E BEN WHILE
<i>(</i>)	Total	179	

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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 question 2 to 5, write all your answers in the spaces provided.

1.	(a)	Whic	h one of the following is not a reason for grooming calves?
		A. B. C. D.	Stimulating digestion. Removing external parasites. Keeping the skin loose and flexible. Stimulating the flow of blood.
	(b)	Which brick	ch one of the following building construction tools is used to check if as have been laid horizontally in a straight line?
		A. B. C. D.	Plumb bob. Try square. Spirit level. Trowel.
	(c)	Whi	ch one of the following will ensure effective use of agricultural
		A. B. C. D.	Availing credit to all farmers. Encouraging the culture of saving. Timely availability of credit. Limiting the use of credit to the intended purpose.
	(d)	Whi	ch one of the following nutrients causes a deficiency symptom of poor development in plants?
		A. B. C. D.	Phosphorus. Calcium. Potassium. Iron.
2.	State fo	our pra	nectices that lead to the production of high quality hides. (04 marks)

List five advantages of using a spray race in the control of ticks. (05 marks)				
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List five advantages of using a spray race in the control of ticks. (05 marks)				
List five advantages of using a spray race in the control of ticks. (05 marks)	Suggest five ways by which fa	rm workers can be moti	ivated to work	hard.
				(05 marks)

	•••••			

	List Gree advantages of using a	spray race in the contro	ol of ticks.	(05 marks)
	List live advantages of daing			1

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	(04 marks)

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	PART B (80 MARKS)
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	PART B (80 MARKS) our questions including at least one from each section. Additional questions will not be marked. Write your answers in the answer booklets provided.
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	our questions including at least one from each section. Additional questions is will not be marked. Write your answers in the answer booklets provided.
swered	our questions including at least one from each section. Additional questions it will not be marked. Write your answers in the answer booklets provided. SECTION I MECHANISATION AND FARM MANAGEMENT
	our questions including at least one from each section. Additional questions is will not be marked. Write your answers in the answer booklets provided. SECTION I MECHANISATION AND FARM MANAGEMENT
swered	our questions including at least one from each section. Additional questions it will not be marked. Write your answers in the answer booklets provided. SECTION I MECHANISATION AND FARM MANAGEMENT Explain the factors to be considered when choosing materials for constructing a farm building. (12 marks)
swered (a)	SECTION I MECHANISATION AND FARM MANAGEMENT Explain the factors to be considered when choosing materials for constructing a farm building. Describe the features of a good deep litter poultry house. (08 marks)

Study the table and answer the questions that follow.

Table 1

Assets and liabilities	Shs
Farm implements & machinery	300,000
Buildings	400,000
Long term loan	500,000
Bank overdraft	120,000
Land	500,000
Debits payable	70,000
Debts receivable	170,000
Cattle	230,000
Goats	120,000
Cash in the bank	150,000
Cabbages Land 10 10 10 10	45,000

- (i) Draw a balance sheet for Mr. Kasumba's farm business. (11 marks)
- (ii) Calculate the value of liquid assets. (01 mark)
- (iii) Calculate the value of fixed assets. (01 mark)
- (iv) Calculate the value of current liabilities. (01 mark)
- 8. (a) Give the uses of a hand hoe on a farm. (05 marks)
 - (b) Explain the factors to consider when choosing farm tools to buy. (10 marks)
 - (c) How should farm tools be maintained? (05 marks)

SECTION II CROP PRODUCTION

- 9. (a) What factors have contributed to the success of cereal crop farming in Uganda? (12 marks)
 - (b) Outline the challenges faced by cereal crop farmers in Uganda. (08 marks)
- 10. (a) Describe the ways in which living organisms contribute to soil formation.
 - (b) Explain factors that influence the amount of organic matter in the soil.

 (12 marks)

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- 11. (a) Explain the adaptations that have made weeds more successful than crop plants. (10 marks)
 - (b) What measures can a farmer take to ensure effectiveness of herbicides in weed control? (10 marks)

SECTION III ANIMAL PRODUCTION

- 12. (a) State the factors that may lead to diseases in calves. (08 marks)
 - (b) Explain the effects of diseases on livestock enterprise. (12 marks)
- 13. (a) Outline the management practices required to maintain a steady egg production from a poultry business. (10 marks)
 - (b) State the advantages and disadvantages of free-range system of poultry rearing. (10 marks)
- 14. (a) State the reasons for conserving herbage. (04 marks)
 - (b) Describe the procedure for making silage. (10 marks)
 - (c) What problems are associated with making and using silage? (06 marks)

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