STUDENT'S NAME:	••••••••••••
SCHOOL NAME:	INDEX NUMBER

527/1 PRINCIPLES AND PRACTICES OF AGRICULTURE

(Theory)
Paper 1
June/July 2022
2 ½ Hours



AITEL JOINT MOCK EXAMINATIONS

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, choosing at least one question from each section

FOR EXAMINER'S USE ONLY

Questions	Marks	Examiner's No. and signature
PART A		
PART B		
TOTAL		

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Turn Over

PART A

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)	The conversion of soil nitrogen into atmospheric nitrogen is best described as:		
		A. Ammonification B. Nitrification		
		C. Denitrification		
		D. Immobilization		
	(b)	The percentage change in quantity demanded divided by the percentage	ge change	
		in price is termed as;		
		A. Elasticity of demandB. Elasticity of price		
		C. Elastic demand		
		D. Unit elasticity of demand		
		2. One clasticity of demand		
	(c)	The hormone responsible for milk let down in a milking animal is;		
		A. Oestrogen		
		B. Oxtocycin		
		C. Prolactin		
		D. Progesterone		
	(d)	Thefollowing determine the depth of planting seeds except;		
	(4)	A. Soil moisture		
		B. Size of the seed		
		C. Growth habit of the plant		
		D. Soil type		
2	O(1:		(001)	
2.	Outlin	-	(02 marks)	
	•••••		• • • • • • • • •	
			• • • • • • • • • • • • • • • • • • • •	
2	(a) C t	ete four edvanteges ofusing droughtenimals to de form estivities	(O4 mortes)	
٥.	(a) Su	ate four advantages of using draughtanimals to do farm activities.	(04 marks)	
	•••••		• • • • • • • • •	

	(b) Mention four traits of a good draught animal to use on the farm.	(02 marks)		
4.	(a) Why are organic mulches preferred to inorganic mulches in soil and water			
	conservation?	(02 marks)		
	(b) Outline two limitations of using organic mulches in farming.	(02 marks)		
	(b) Guillie two initiations of using organic indicates in raining.			
		• • • • • • • • • • • • • • • • • • • •		
		•••••		
5.	(a)Mention four examples offield pests that cause damage to crops.	(04 marks)		
		• • • • • • • • • • • • • • • • • • • •		
		• • • • • • • • • • • • • • • • • • • •		
	(b) Outline four importance of storage farm structures.	(02 marks)		
	(-)			

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PART B (80 MARKS)
Answer four questions including at least one from each section.

SECTION I CROP PRODUCTION

(a) D	ifferentiate between soil productivity and soil fertility.	(02 marks)
(b)	Explain the factors that influence the fertility and productivity of	a soil.
		(12 marks)
(c)	Outline ways through which a soil loses its fertility.	(06 marks)
(a)	Explain the features that make crop pests hard to control.	(10 marks)
(b)	Describe ways through which crop pests may be culturally control	olled.
		(10 marks)
(a)	Differentiate between asexual and sexual propagation in crop pro	oduction.
		(02 marks)
(b)	Explain the advantages of propagating crops asexually.	(08 marks)
(c)	Describe the different methods of asexual propagation in crop pro-	oduction.
		(10 marks)
	SECTION II	
	ANIMAL PRODUCTION	
(a)	Describe the process of milk let down in a milking animal.	(08 marks)
(b)	Explain the factors affecting the amount and composition of milk	c in
	a milking animal.	(12 marks)
(a)	Explain factors that affect food intake in farm animals.	(12 marks)
(b)	Giving an example in each case, describe the following types of	feeds
	given to farm animals.	(08 marks)
	(i) Roughages	
	(ii) Concentrates	
	(iii) supplements	
	(b) (c) (a) (b) (b) (c) (a) (b) (c) (a) (b) (c)	(c) Outline ways through which a soil loses its fertility. (a) Explain the features that make crop pests hard to control. (b) Describe ways through which crop pests may be culturally control. (a) Differentiate between asexual and sexual propagation in crop proceedings of propagating crops asexually. (b) Explain the advantages of propagating crops asexually. (c) Describe the different methods of asexual propagation in crop proceedings. SECTION II ANIMAL PRODUCTION (a) Describe the process of milk let down in a milking animal. (b) Explain the factors affecting the amount and composition of milk a milking animal. (a) Explain factors that affect food intake in farm animals. (b) Giving an example in each case, describe the following types of given to farm animals. (i) Roughages (ii) Concentrates

- (iv) Additives
- 11. (a) Explain ways through which animal diseases are transmitted on a farm.

(10 marks)

(b) State the damages caused by ecto parasites on animal farms. (10 marks)

SECTION III

MECHANIZATION AND FARM MANAGEMENT

12. (a) Explain the factors considered when choosing a building material to buy.

(08 marks)

- (b) Explain the reasons behind the collapse of buildings on the farm. (08 marks)
- (c) Mention four examples of building materials commonly used on farms.

(04 marks)

- 13. (a) Describe the types of farm records kept by any farm business. (10 marks)
 - (10 marks) (b) State the importance of keeping good farm records.
- 14. (a) Using an illustration, describe the components of a disc plough. (10 marks)
 - (b) Outline the advantages of using a disc plough over a mould board plough.

(05 marks)

(c) State ways through which a dis plough is maintained in a good working condition. (05 marks)

END