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PRINCIPLES AND
PRACTICES OF
AGRICULTURE
Jul/Aug, 2023
(Theory Paper)



PROMISE EXAMINATIONS COMMITTEE

Uganda Certificate of Education PRINCIPLES AND PRACTICES OF AGRICULTURE (THEORY)

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

The paper consists of two parts A and B

Question 1 of part A consist of four objective type questions and candidates are required to put a letter that corresponds to the best answer in the box provided. From questions 2-5, write answers in the spaces provided.

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

For Examiner's Use Only				
Part/Question	Marks	Examiner's Signature And Number		
A	in any management	l granzesa dia legal-ajgantara area sa su		
B: No.				
No.	i di di s	n kanst 101 abbasiii nitti liita 11 ee i aassa		
No.		le la la Maria de la companya de la		
No.	Sing of States	THE CONTRACT SECTION AND THE SECTION ASSESSMENT		
Total				

PART A: (20 MARKS)

Answer all questions in this part. For question 1, write the letter corresponding to the best alternative in the box provided. For questions 2 to 5, write all answers in the spaces provided.

1.	(a)	Correct depth in planting crop seeds means planting the seed;
		A. And ensuring that it is well covered with soil.
		B. So that it does not exhaust its food reserve before germination
		C. At medium depths in heavy soils
		D. In such a manner that it germinates within seven days.
	(b)	Which of the following sets of tools is used for the same purpose?
		A. Hot iron, caustic stick, wire saw
		B. Hot iron, caustic stick, pincers
		C. Hot iron, wire saw, pincers
		D. Caustic stick, wire saw, pincers
	(c)	The price of a commodity in a market is determined by
		A. Transport costs
- (3 80 VH	B. Production cost
		C. Population number
		D. Supply and demand
	t. 11. 33.	and the filler of the contract
	(d)	What is the purpose pf the compression stroke in a diesel engine?
	То.	· · · · · · · · · · · · · · · · · · ·
		A. Ignite the compressed air
		B. Allow the expansion of the fuel – air mixture
	75)	C. Raise the air mixture to ignition temperature
		D. Make a suitable fuel air mixture for ignition.
		(02marks)
		940

2. In January 2023, Mr. Kisodde Kito bought a fertile piece of land near Ssezzibwa river swamp. He cleared, ploughed, harrowed and raked it thoroughly well. He made 20 nursery beds, each measuring 1m wide and 20m long. He bought NPK fertilizer and measured it in the ratio of 2:3:1 at the rate of 200g per square metre.

a)	Total amount of NPK fertilizer (in kgs) which Mr. Kisodde the nursery beds.	Kito used in (01 mark)
	manna and an	. الطَّهُ السنداد.
	,	

(b)	Total amount of N(in kgs) used in the nursery beds.	(½ mark)

	Some of for your are ver in 2 (e) above.	

		••••••
		••••••
(c)	Total amount of P (in kgs) used in the nursery.	(½ mark)
		,

	and process of the sector reviser 2777 to the	71
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
d)	Total amount of K (in kgs) used in the nursery beds.	(½ mark)

	•••••••••••••••••••••••••••••••••••••••	
(e)	Which element was used in the greatest quantity?	(½ mark)

(f)	Give a reason for your answer in 2 (e) above.	(01 mark)

	gualities of a good fertilizer.	(01 mark)
(8	g) Give two quantities of the	

3.	Suggest four ways by which a farmer can increase his or her profit margin. (04 mark	(s)
(i)	***************************************	•••

(ii)		. , ,
(iii)		
	supplied and the from that part brokering at least one purction.	d.
(iv)	and the second three years are on a consult place of the	
(17)	M	• • • •
	MECHANISAND AND FARM VANACIONENT	
4.	Give four causes of poultry vices. (04 marks	
T.	Give four causes of poultry vices. (04 marks	"
G		
(i)	rene I)	•••
		•••
(ii)	· (graffe), par la dassa fantasa Afrikalama, al tarta nortas masemifiad)(s)m	
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	and the second of the second o	• • •
(iii)	. 311. 1137	•••
	and a continuous continuous and a contin	
(iv)		
(11)	The Company of Transfer commany of Masseries at a color of a confidence of the color of the color	
	Compared to the control of the second contro	• • •
	in the first term of the second of the seco	
5.	Give five advantages of using water as a coolant in the engine.	
	a dapos	s)
(i)		•••
		• • •
(ii)	10007 (03)	

(iii)	11.00		rangi k ripadro nd syns v	
(iv)	(iv)			
(v)				
	*****			(8)
		PART B:	(80 MARKS)	
Ans	wer fo	our questions from this part	including at least one qu	uestion from each
		section. Write your answers		
		SEC	CTION I	
		MECHANISATION AN	ID FARM MANAGEMI	ENT
6.	(a)	State the qualities of a good	od roofing material.	(06 marks)
	(b)	Explain the precautions to	aken when storing maize	grain produce. (14 marks)
7.	(a) engi	Outline an action that is no faults;	needed to correct each of	the following
		(i) Engine jerking.	re esqueerenti xi ee ya e,	(05 marks)
		(ii) Engine producing bl	ack smoke.	(05 marks)
	(b)	What are the safety rules	for tractor operation?	(10 marks)
8. (a)		The following information e a profit and loss account a		
		Milk sales	30,000	
		Maize sales	400,000	
		Pesticide purchase	200,000	
		Other receipts	100,000	
		Income tax	120,000	
		Closing stock	150,000	
9.1		Rent	200,000	
	1 1	Cash at bank	500,000	

Bank overdraft		100,000	
Poultry receipts	*	500,000	
Opening valuation	The second secon		
Transport expense		230,000	
		150,000	e in the same
Interest on loan		100,000	
	in in the second of	The state of the s	(09 marks)
 How do such records	s improve farm p	performance?	(06 marks)
State the advantages of mixed farming.			(05 marks)
			,

SECTION II CROP PRODUCTION

(a) Outline the advantages and disadvantages of broad casting as a method of planting. (10 marks)
(b) Why is it advisable to plant crops in rows? (05 marks)

(b) (c)

- (c) Outline the benefits of using proper spacing in crop production.
 (05 marks)
- (a) Give the characteristics of a fertile soil. (05 marks)
 (b) How do soil living organisms contributes to soil fertility in an area? (05 marks)
 (c) Explain the various ways how the fertility of the soil is lost. (10 marks)
- (a) State the characteristics of a grass suitable for use as a pasture plant. (08 marks)
 (b) Outline the advantages and disadvantages of zero grazing. (12 marks)

SECTION III ANIMAL PRODUCTION

- 12. (a) Explain the factors that may lead to disease outbreak on a poultry farm. (10 marks)

 (b) Explain the ways through which the spread of diseases in poultry can be controlled. (10 marks)
- (a) Why do heifers or cows sometimes fail to conceive after being served? (10 marks)
 (b) Describe how you would manage a pregnant cow up to calving time. (10 marks)
- (a) What is the importance of keeping goats on farms in Uganda. (10 marks)(b) How can the goat industry in Uganda be improved? (05 marks)
 - (c) Outline the features of a healthy goat. (05 marks)

END