NAME	INDEX NO
	PERSONAL NO:
527/1 Principles Practices of Agriculture Theory Paper 1 July /August 2023	KASSEC

# KAYUNGA SECONDARY SCHOOLS EXAMINATIONS COMMITTEE (KASSEC) JOINT MOCK EXAMINATION 2023 Uganda Certificate of Education

### PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 1 (Theory)

2 hours: 30 Minutes

#### **INSTRUCTIONS:**

2 hours

• Answer all questions in Part A and Four questions in Part B by selecting at least one question from each section.

#### FOR EXAMINER'S USE ONLY

	PART MARKS EXAMINER'S SIGNAT			
A				
	QN.			
В	QN.			
	QN.			
	QN.			
TOTAL				

Turn Over

# PART A: (20 MARKS)

# Answer all questions in this part.

For question 1, write the letter that corresponds to the best answer in the boxes provided. From question 2 to 5, write all your answers in the spaces provided.

- 1. (a) The reason for using galvanized iron in constructing farm structures is because it;
  - A. Is cheap
  - B. Is strong
  - c. Resists corrosion
  - D. Appears attractive
  - (b) Which of the following is a risk in a farming business?
    - A. Technological changes
    - B. Changes in government policy
    - C. Transport reliability
    - D. Theft of produce
  - (c) The soil with PH<sub>4</sub> can be modified for crop production by A. Growing crops that require PH<sub>4</sub>.
    - B. Draining it
    - C. Liming it
    - D. Irrigating it
  - (d) Which one of the following diseases in livestock can be controlled by eradicating ticks?
    - A. Mastitis
    - B. East coast fever
    - C. Trypanosomiasis
    - D. Milk fever

2.	(a)	Give two functions of the rumen in a farm a		(02 marks)
	(b)	(i) State the metabolic disorder which is		
3.		Outline two ways of controlling the metaboli stated in (b)(i) above.		(02 marks)
4.	Menti	on four causes of low supply for agricultural pro	oducts in the market.	(04 marks)
		experiment to investigate the soil property, the		
	- Ma	ass of a crucible	= 20g	
	- Ma	ass of a crucible + soil	= 80g	
	- Ma	ass of a crucible + soil after heating to red hot	· = 58g	

 (a)	(1)	Give a reason why the soil turned red after heating it Strongly.	(01 mark)
	(ii)	State the soil component which was investigated in the	experiment. (01 mark)
	(iii) the	calculate the mass of the soil component investigated in experiment.	(02 marks)
		Outline two farming practices that can be employed to	
 		of the soil component stated in (ii) above.	
 Give		naracteristics of a good grain store.	

## PART B: (80 MARKS)

Answer **four** questions in this part by selecting at least **one** question from each section. Write your answers in the answer booklet provided.

#### **SECTION I**

## FARM MANAGEMENT AND MECHANIZATION

(05 marks) 7. (a) Outline the reasons why farmers acquire credits. (05 marks) (b) What factors limit farmers access to agricultural credits Explain the measures that can be put in place to increase effectiveness of (c) (10 marks) agricultural credits. Explain the factors that influence the choice of a farm structure to construct. (a) 8. (12 marks) State the ways in which a farmer may increase durability of farm buildings. (b) (08 marks) Explain the considerations when selecting a good animal for performing farm (a) 9. (12 marks) work. How can a farmer improve the productivity of oxen? (08 marks) SECTION II (b) **CROP PRODUCTION** Explain how diseases are spread in crops. (10 marks) (a) 10. Describe the measures that can be taken to prevent the outbreak and spread of (b) (10 marks) diseases in crops. (a) Outline the sources from which plants obtain nutrients. (05marks) What are the functions of phosphorus in plant growth and development? (b) (06 marks)

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	(c)	How can a farmer ensure better response of crops to fertilizers?	(09 marks
12.	(a)	Explain the meaning of the following terms in vegetable product	tion.
		(i) Hardening off	(02 marks
		(ii) Staking	(02 marks
	(b)	Describe the characteristics of an ideal site for establishing a veget	table garden. (06 marks)
	(c).	Describe the field practices that can be carried out in growing of to	matoes from
62.5	3700	planting up to harvesting.	(10 marks)
		SECTION III ANIMAL PRODUCTION	
13.	(a)	State the signs of worm infestation in livestock.	(06 marks)
	(b)	Explain the adaptations of tape worms to their parasitic mode of life	e. (10 marks)
1934	(c)	Outline the ways of controlling tapeworms on the farm.	(04 marks)
14.	(a)	Outline the differences between a good and a poor laying bird.	(08 marks)
de l'an	(b)	What precautions should a farmer take to ensure production of high	h-quality eggs
		on the farm?	(12 marks)
15. (a)		Explain the considerations when formulating rations for farm anim	mals.
			(12 marks)
F	(b)	A pig farmer would wish to mix 1200kg of a ration for his animals to cake containing 45% crude protein and maize which contains 25%. In what proportions would he mix the two feed stuffs to make a rational contains 15% crude protein?	cmido must
	(c)	Give reasons for including additives in livestock feeds.	(03marks)
	700	#####################################	