Candidate's Name:			
Signature:	Random No.	Personal No.	
		يوري الأراي	

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

P515/3
PRINCIPLES AND
PRACTICES OF
AGRICULTURE
Paper 3
(Practical)
Nov./Dec. 2024
2 hours



UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Advanced Certificate of Education
PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 3 (Practical)

2 hours

INSTRUCTIONS TO CANDIDATES:

This paper consists of five questions.

All questions are compulsory.

All answers should be written in the spaces provided.

For Examiners' Use Only		
Question	Marks	Examiner's Signature & No.
1		
2		
3		
4		
5		
Total		

	(a	specimen which is suitable for planting.	performance of the (03 marks)

		***************************************	***************************************
		***************************************	***************************************
		***************************************	***************************************
		***************************************	***************************************
2.	that f	are provided with specimens X and Y which are parals. Using a hand lens, observe each specimen and a follow.	rasites of farm answer the questions
	(a)	Basing on the observable features of each speci	men, suggest with a
		reason the type of parasite each specimen is.	(03 marks)
		X	
		Reason	

		Y	
		Reason	

	(b)	Describe how the observed features of each spec	rimen enable it to be
		successful as a parasite.	(02 marks)
	8	x	The second secon

	12	***************************************	
	2	***************************************	*******************
	Y		
	1.51		***********************
	**		
		3	Turn Over

	would affect its host. (01 mark)

I)	State two control measures for each of the specimens X and Y.
	X(04 marks

	Y

- 3. Specimens H₁, H₂ and H₃ are simple machines commonly used on a farm.
 - (a) Giving a reason in each case, state the class of lever to which each specimen belongs. (4½ marks)

Specimen	Class of lever	Reason
Hı		
H ₂		
Н3		

		Same two farm activities where	each of the specimens is used	
		H ₁	(1½ marks)	
		TI.		
		Нз	***************************************	
	(c)		designed for their respective functions?	
		44	(02 marks)	10
		***************************************		ii.

		H ₃		
		***************************************	***************************************	
	(an	***************************************		
	(d)	Suggest two maintenance pract of the specimens H ₁ and H ₂ .	ices that should be carried out on each	
		or the specimens 111 and 112.	(02 marks	8)
		H ₁		

				3.20
			•••••••••••	446
		H ₂	••••••	•••

4.			E ₂ , E ₃ , E ₄ and E ₅ which are planting d answer the questions that follow.	5
	1901000		each specimen for planting. Give a	Color
	1	eason in each case.	(05 ma	rks)
	E1			
	Reason			
		5	Turn (Over

N

6

E	2	
	eason	
	3	
	cason	
	ason	

Re	ason	
(b)	Give one advantage of using specimen E ₁ over specimen E ₂ as a planting material. (01 mark)))

	***************************************	83
c)	Describe the procedure for planting specimen E ₃ . (04 marks)
	***************************************	20.
	***************************************	•
		10.
		• •

- You are provided with specimens D₁ and D₂ which are seeds.
 - (a) Split specimen D₁ into two halves without damaging the embryo and place the halves on the filter paper provided. Add a drop of tetrazolium salt on the surface of the half that has the embryo and observe what happens. Record your observations in table 1. Repeat the procedure with specimen D₂.

Table 1

(01 mark)

Observation

(b) What conclusions can you draw about the suitability of each specimen for planting? (02 marks)

Suitability for planting	
	Suitability for planting

(c) Suggest four possible causes of the condition that has made one of the specimens unsuitable for planting. (04 marks)

(i)	***************************************		

(ii)	 	
0.6500		

(iii)	**********	



c)	(i) Which one of the four specimens is the most difficult to (02 marks)		
٠,	(1)	control? Give two reasons for your answer.	(02 marks)

	14444		

	(ii)	Based on the reasons you have given in (c)(i), sug effective methods of controlling the specimen.	gest two (02 marks)

	owing questions: Observe them and answer the
(a)	Classify the specimens according to their life span. (02 marks)

b)	Suggest one method of
	Suggest one method of propagation for each specimen. Give a reason in each case. (04 marks)
	NT COMMENSATION
	P.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

	Q

	R
	······································
- 1	
-	S
(*)	