

Name	Signature
Index No	
P515/3	
Principles and	
Practices of Agriculture	

MOCK EXAMINATIONS 2019

UGANDA ADVANCED CERTIFICATE OF EDUCATION
PRINCIPLES AND PRACTICES OF AGRICULTURE
PAPER 3
PRACTICAL PAPER
2 HOURS

Instructions to candidates

- This paper consists of five questions
- Answer all questions
- All questions are to be written in the spaces provided.

	For Examiners	s' use only
1		
2		
3		
4		
5		
Total		



1.	You are provided with specimens F ₁ ,F ₂ ,F ₃ and F ₄ which are anima (a) Using a candler, observe the specimens F ₁ and F ₂ and describe observations	•
	F_1	
		•••••
		•••••
		•••••
	F_2	
	(b) Break open specimens F_1 and F_2 and pour them in different per Describe your observation	tridishes.
	F_1	
		•••••
	F_2	
		•••••
	(c) Explain your observations in (a) and (b)	(2 marks)

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		• • • • • • • • • • • • • • • • • • • •
(d)	(i) Observe the external features of specimens F_3 and F_4 , describing suggest the causes of the condition .	e them and (2 marks)
	F ₃ Description	
		• • • • • • • • • • • • • • • • • • • •
	Cause of condition	
		• • • • • • • • • • • • • •
	F ₄ Description	
	<u>^</u>	
	Cause of condition	
		• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •
(e)	Suggest how each of the condition can be avoided avoided	(2 mark)
	F_3	



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•••	• • • •	• • • •	•••	• • •	• • •	 ••	• •	 ••	• •	••	••	• •	•	• •	• •	• •	• •	••	• •	••	• •	• •	••	••	• •	• •	• •	• •	• • •	• •	• •	• • •	• •	• •	• •	• •	• •	• •	••	•
F ₄																																								

2. You are provided with specimens A,B,C and D which are extracts from livestock feeds perform the following tests, record your observations and conclusions.

Test	Observation	Conclusion
(i) Put 1cm ³ specimen		
A in a test tube and		
add 1cm ³ of iodine		
solution		
(ii) Put four separate		
drops of specimen A		
on a tile add drops of		
saliva on each of the		
drops and then add a		
solution of iodine on		
each of the drops of a		
at an interval of 2		
minutes		
(iii) Put 1cm ³ of B in a		
test tube add 1cm3 of		
NaOH solution.		
Shake to mix and add		
3 drops of copper		



	sulphate wait for 2		
	minutes and the		
	shake.		
	(iv) To 2cm ³ of C add		
	2cm3 of benedicts		
	solution and boil		
	(v) To 2cm ³ of D add		
	2cm ³ of benedicts		
	solution and boil.		
	Repeat the		
	experiment by adding		
	3 drops of dilute Hcl		
	followed 3 drops of		
	sodium hydroxide		
	and then benedicts		
	solution and boil		
	(h) Evalain the observation	in 2 (ii) abova	(1 morts)
	(b) Explain the observation		(1 mark)
3.	You are provided with spec	timens S_1 and S_2 which are so	oil samples obtained from
	different parts of the garder	n. Carry out experiments and	answer questions that
	follow. Take a spatulaful of	$f S_1$ and put it in a test tube.	Add 3cm ³ of water and add
	barium sulphate, shake the	test tube well. Allow the mix	cture to stand and settle for
	10 minutes. Add 3 drops of	universal indicator to the tes	st tube and observe the
	colour change. Compare the	e colour of the mixture with	the colours of the pH chart.
	Repeat the procedure with s	soil sample S2 and record you	ur results in the table
	below.		(2 marks)
	Soil sample	Colour observed	pH value
	•		
			1



	1		
	b) From your observation stat	e the problems associated	
s_1	and S_2 for crop production		(4 marks)
)		
,	,		
	•	• • • • • • • • • • • • • • • • • • • •	
(11	i)	• • • • • • • • • • • • • • • • • • • •	
		• • • • • • • • • • • • • • • • • • • •	•••••
(ii	ii)		
G	<i>w</i>)		
(1)	v)		•••••
	•••••	• • • • • • • • • • • • • • • • • • • •	•••••
~			
S_2	2		
(i)			
()			
	•••••	• • • • • • • • • • • • • • • • • • • •	•••••
(ii)	•••••		
(iii)			
(iv)			
(iv)		• • • • • • • • • • • • • • • • • • • •	•••••
	•••••	• • • • • • • • • • • • • • • • • • • •	•••••
	t management practices woul	d you encourage the farm	er to use in order to
improve	soil samples S_1 and S_2 ?		

 \mathbf{S}_1



(i)		
(ii)		
		•••••
S_2		
(i)		
		
(ii)		
		••••••
d) What	is the significancy of using barium sulphate in the experiment?	(1 marks)

4. Specimens G, H, I and J are plant parts and plants showing disease symptoms and pest damages. Observe the specimens and record in the table below the disease symptoms, causal agent and two control measures in each case

Specimen	Symptom	Causal agent	Method of control
G			



Н			
I			
7			
J			
	d with specimens K an		
	r the questions that fo		
explain the damages K	each pest may cause		(2 marks)
			•••••
_	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •
L		•••••	
L			
L			
L			

(c) Suggest the best method of control for each of the specimen K and R. Giving a reason for your answer



	K	
	Re	ason
	R	
	Re	ason
5.	ma	ou are provided with specimens L,M,N and P which are equipment used in the imagement of farm animals. Describe two features that help each specimen to perform its function properly (4 marks)
	L	(4 marks)
	M	
	N	



P	
(b)	Describe how each of the specimens L and M are used (4 marks)
L	
M	
(c)	How can the specimens L and M be maintained in good working conditions? (2 marks)
(i)	
(-)	
	• • • • • • • • • • • • • • • • • • • •

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(ii)	 •

END