Candidate's name	.index number
P525/3	
Principles and practices of	
Agriculture	
Paper 3	

INTERNAL MOCKS EXAMINATIONS 2019 Uganda Advanced Certificate of Education PRINCIPLES AND PRACTICESOF AGRICULTURE Paper 3 (written practical)

Paper 3 (written practical)

2hours.

Instructions to candidates,

This paper consists of five questions.

Answer **all** questions

FOR EXAMINERS USE ONLY			
Questions	Marks	Initials	
1			
2			
3			
4			
5			
Total			

1. You are provided with plant tissue A. Using a cork borer, make cylinders from A cutting each 3cm long of same diameter.

Place each cylinder of plant tissue in atest tube containing equal amount of solutions A_1 to A_8 separately.

Leave the experiment for 30minutes.

(a) Remove the plant tissue from solutions and record your observations in the table below; (03marks)

Specimen from solution	Initial length cm	Final length cm
A 1		
A ₂		
A ₃		
A ₄		
A ₅		
A ₆		
A ₇		
A ₈		

(b) Plot a graph showing variation in length of plant tissues with solution	
concentration.	(3½marks)
(c) (i) What physiological process is under investigation in the above ex	periment
in (b), (½mar	k)
	(02marks)
(d) Outline 2 reasons why the physiological process is essential in plant	lifo?
(d) Outline 2 reasons with the physiological process is essential in plant	(01 mark)
	` '
	•••••
2. You are provided with specimen Q which in part of the farm animal.	
(a) Observe the specimen and identify the undesirable features on it.	
	(2½marks)
	•
(b) Suggest the cause of each undesirable feature on the specimen.	(2½marks)
	•••••
(c) State how each of the identified features on Q affect the quality of	the
specimen.	(05 marks)

3.	Examine the specimens B, C, D, E and F carefully and answer the quefollow.	estions that
(a)	Describe how the specimens examined are suited for their functions	
D.		(04marks)
•••		
C.		
D.		
Ε		
F		
(b)) Describe how the specimens B,C,D , and E can be used to produce s	uitable
	pieces of F for construction of a feeder.	(02marks)
•••		

(c) Suggest possible problems encountered in the use of specimens B	, C, D and F. (02marks)
В	
C	
T.	
D	
F	
(d) How can specimens B, C, D, and E be maintained in good working	conditions?
	(02marks)
В	
C	
D	
E	
4. You are provided with specimens J, K, L, M, N and O which are pas	_
(a) Examine and give any 2 common features of specimens K and M.	,
Specimens Nand O.	(02marks)
(b) (i) Suggest the lifespan of specimen J and give a reason why it shou included among pastures. (02m	ıld be narks)

(ii) Give the method of propagating specimens J,	
[
K	
L	
M	
(c)What qualities make specimens J and N suitab	
(-)	(02marks)
J	,
,	
N	
5. You are provided with specimens M ₁ ,M ₂ ,M ₃ , M ₄	
tractor engine.	and his which are components of a
(a)Observe specimens and state with a reason the	e twoe of engine to which they
belong.	(02marks)
belong.	,
(b)Describe order how specimens M ₁ , M ₂ , M ₃ and	d Mawark tagathar to angura
•	•
performance of a tractor.	(04marks)

(c)Observe specimen M_4 and state 2 features that enable it to function ϵ	efficiently. (02marks)
(d)Suggest 4 ways of ensuring durability and efficiency of M_1 .	

END

Uganda Advanced Certificate of Education Principles and practices of Agriculture paper 3(P515/3) Internal mock examinations 2017

Instruction sheet

A Potato tubers

A₁ 0%Nacl

A₂5%Nacl A₃10%Nacl

A₄ 15%Nacl

A₅ 20%Nacl A₆ 25%Nacl A₇ 30%Nacl A₈ 35%Nacl

B G- clamp/sash clamp

C Hand saw

D Smoothening plane

E Tape measureF piece of timber

M₁ Tractor battery with wire at terminals

M₂ Ignition coilM₃ DistributorM₄Spark plug

M₅Insulated clean wire

J Calliandria

K Green leaf desmodium

L Guinea grass

M Lablab

N Congo signal

O Thatching grass

Q skin/hide, folded with holes, hair slip damage,

Cowdung, soil, meat pieces and fats.

Alsoprovide test tubes each, cork borers.

END