Name of School:	
Candidate's Name:	
Centre No./Index No:	Signature:

P515/3
AGRICULTURE PRACTICAL
Paper 3
July/August
2 Hours



ELITE EXAMINATION BUREAU MOCK 2019

Uganda Advanced Certificate of Education

PRINCIPLES AND PRACTICESOF AGRICULTURE Paper 3 2 Hours

INSTRUCTIONS TO CANDIDATES

- This paper consists of **five** questions.
- Answer **all** questions
- All answers should be written in spaces provided.

For Examiners' Use Only		
Numbers	Marks	Examiner's Comment
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 5cm^3 of solutions A₁ to A ₈separately. Solutions A1 to A8 are of different concentrations from 0%, 5%, 10%, 15%, 20%, 25%, 30% and 35% respectively.
 - Leave the experiment for 30minutes.
- (a) After 30 minutes remove the plant tissue from solutions and record your observations in the table below; (03marks)

Specimen from solution	final length cm	Change in 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 against cor	ncentration of
the solutions.	
(c) (i) What physiological process is under investigation in the above e	xperiment
in (b),	(½mark)

(ii)Briefly explain the shape of the curve.	(02marks)
(d) O dia 2	
(d) Outline 2 reasons why the physiological pro	(01 mark)
	(C2 mam)
2. Specimens B, C, D and E are parts of a	primary tillage implement.
(a) (i). Identify the implement to which	
(ii). To which level of Agriculture mecl identified in a (i) belong?	nanization does the specimen (01mark)
(b). Identify each specimen	(02marks)
B	
C	
D	
E	

(c). Briefly state the function of each specimen	(02marks)
В	
C	
D	
E	
(d). Briefly explain how any one major feature obsethespecimen to carry out the stated function in 2 (c) (04marks)	
В	
C	
D	
E	
3. (a)Classify the specimens J, K, L, M and N into tw their similarity in terms of nutrient composition.	o groups according to (02marks)
(b) (i) Suggest the best combination of the specimen pasture production	s J, K, L, M and N in (01mark)

4. You are provided with specimens P and Q which are plant parts attacked by pest and diseases.
(a). Observe the specimens and state the damages observed on each
specimen (02 marks)
P
Q
(b) Suggest the cause of each damage observed on each specimen.
(02marks)
P
Q
(c). Suggest the effect of each observed damage on the crop. (02marks)
P
Q
d). Suggest two cultural methods of controlling each observed damage on
thespecimen. (02
marks)
P
Q
5. Specimens S , T , U , and V are important specimens in Honey harvesting.
(a) Examine the specimens and state the name of each as used in honey
harvesting. (02

marks)S	
_	
Т	
11	
U	
V	
(b). Describe how the specimens S, T, U, and	I Vare used together to obtain
honey from a Bee hive	(04marks)
,	,
(c). Briefly explain how specimen ${f V}$ enables a	
the hive.	(02marks)
(d). Suggest any four factors that may affect	the quality of honey harvested
from a hive.	(02marks)

END