Candidate's	Name:
Signature: Personal number:/	
(Do not write your School/Centre Name or Number anywhere on this booklet.)	
527/2	
PRINCIPLES AND	
PRACTICES OF AGRICULTURE	
Paper 2	
2024	
2 hours	
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PEAS UG NETWORK

PRE-MOCK EXAMINATIONS 2024

Uganda Lower Secondary Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 2

2 hours

INSTRUCTIONS TO CANDIDATES:

- The paper consists of **two** compulsory examination items.
- Write your answers in the spaces provided using blue or black pen ink

Answer all items in this paper

Item 1.

Nyamuha picked soil samples from her two different plots and took them to the Laboratory for carrying out experiments on them. She picked these samples because she was planning to grow different crops in the following season. One of the plots was in a swamp while the other one was on a gentle slope. Nyamuha reclaimed the swamp for banana production. In the first two years, she harvested very small bunches. She tried the same on a gentle slope and yields increased. The following year, he picked soil samples **Y** and **Z** from the two different places for further investigation because she had interest in quality production.

Task:

As a student with vast knowledge about soil science, plan and carry out investigations on the two specimens **Y** and **Z** and then answer the items below;

- (a). Briefly explain how Nyamuha can carry out an experiment to investigate the texture of soil samples **Y** and **Z** when wetted with little water. (2marks)
- (b). Advise Nyamuha on the steps to take in carrying out a suitable experiment to determine how particles of specimens **Y** and **Z** settle in two separate labelled cylinders after 10 minutes when given 40cm^3 of soil, 50cm^3 of water and other known materials for the experiment. (08 marks)
- (c). After 10 minutes, use a ruler provided and measure the length (in cm) of soil separates in the measuring cylinders. Present your findings in a table form for the two specimens. (06 marks)

(d). Draw a table and state the differences between measuring cylinders.	the two mixtures in the separate 100 cm ³ (04 marks)

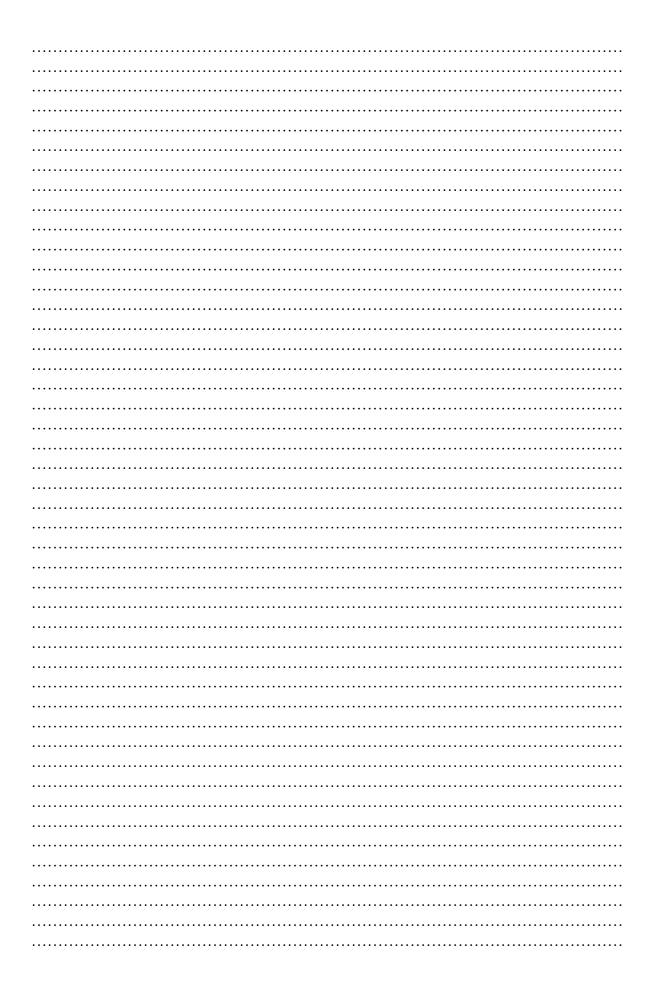


Item 2.

A teacher of Agriculture at Golden High School has a total of 12 Agriculture students and he divided them into two major groups **A** and **B**. Students in Group **A** were assigned to raise cassava, maize, beans and sugarcane while those in Group **B** were assigned to grow bananas, sweet potatoes and Irish potatoes. Each group has tried to work hard so that group members can score highly. However, some members in the groups have not done their best and have left the work to the few individuals. Yesterday evening, the teacher went to the field to

supervise the students plots and observed that some crops had signs of pest and disease attack. He removed them from the field today morning when he was getting planting materials for the new prepared plots.

Task:			
Observe specimens O, P, Q, R below;	, S, T, U, V, W and X very	carefully and	answer the items
(a). Describe the observable effe	ect of the disease on specimer	O and P.	
			(02 marks)
(b). Describe the non-chemical P .		e that attacked narks)	specimens O and
c). With a clear reason, state w (02 marks)	hether specimen Q is suitab	le for use as a	planting material.
(d). State four structural differen	ces between specimen R and	S . (02 mai	ks)
(e). Giving a reason in each caplanting.	ase, comment on the suitab	ility of specim (02 marks)	nens T and U for
(f). Describe the procedure of plant	anting specimen B in a prepa	red field.	
			(05 marks)
(g). Identify specimen V and (02 marks)	explain how specimen V	can be treated	before planting.
(h). State the purpose of specime	ens W and X?	(01 1	mark)
(j). State one condition that fave their purpose.	our each of the specimens V (02 marks)	V and X to suc	ecessfully perform
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