527/2 Principles and Practices of Agriculture (Practical Paper) Paper 2

Uganda Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

(Practical Paper)

Paper 2

2 hours

INSTRUCTIONS TO CANDIDATES:

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

For examiner's use only													
Questions	Marks												
1													
2													
3													
4													
5													
Total													

- 1. You are provided with specimens A and B which are soil samples. Measure 30cm³ of specimen A and pour it into a funnel which is lined with filter paper. Place the funnel onto the measuring cylinder provided. Add 30cm³ of water on *Turn Over* filter funnel and start the stop clock.
 - (a) (i) Nate the time taken for the first drop to appear.
 - (ii) After five (5) minutes note and record the volume of water collected in the measuring cylinder in the table below.

(iii) Repeat the procedure with specimen B.

Specimen	Time taken for 1 st drop to appear	Volume of water collected
A		
В		

(b) (i)	Explain the differences in the time taken for the first drop to soil samples A and B.	appear in the (02 marks)
••••••	•••••••••••••••••••••••••••••••••••••••	
•••••		
(ii)	Explain the differences in the amount of water that passed the samples after five minutes.	rough the soil (02 marks)
(c) Calo	culate the percentage of water that was retained in specimen A.	(02 marks)
•••••		
•••••		••••••

	retained can l	be improved.			(01 mark)
				• • • • • • • • • • • • • • • • • • • •	
•••••	•••••		•••••	• • • • • • • • • • • • • • • • • • • •	
•••••	• • • • • • • • • • • • • • • • • • • •		•••••	• • • • • • • • • • • • • •	
	•••••		•••••	• • • • • • • • • • • • • • • • • • • •	
(ii)	What is the in	mportance of the re	esults of the ex	xperiment to	the farmer? (01 mark)
				• • • • • • • • • • • • • • • • • • • •	•••••
				• • • • • • • • • • • • • • • • • • • •	
You are arable la	•	h specimens C, D,	E and F whic	h are comm	on plants foun
	vations and	break the stems from your observ			
Specimo	en Observat	tions	Clas	sification	
С					
D					
D					
E					
E (b) Using weed	-	features, state wh	y each of the	e specimen	
E (b) Using weed	•	features, state wh	y each of the	e specimen	
E (b) Using weed	•	features, state wh	y each of the	e specimen	is successful a
E (b) Using weed	•	features, state wh	y each of the	e specimen	

	D
• • • • • • • • • •	
• • • • • • • • • • • • • • • • • • • •	
	E
• • • • • • • • • • • • • • • • • • • •	
• • • • • • • • •	
	ng your observations from (b) above, give two most suitable methods of rolling specimens C, D and E.
(i)	C
(1)	
• • • • • • • • •	
(ii)	
	D
(i)	
(ii)	
` ′	
• • • • • • • • • •	T.
(i)	E
(1)	
• • • • • • • • •	
(ii)	
You are the tract	provided with specimens J, G, H and I which are materials that are used in tor.
(a) Obse	erve them carefully and describe the condition of specimens F, G and H.
	(03 marks)
	J
•••••	
• • • • • • • • • • • • • • • • • • • •	
	G

3.

Н	
(b) From your observations in (a) above which parts of the trac specimens used? Give a reason for your answer.	ctor are each of the (03 marks)
J	
Reason	
G	
Reason	
H	
Reason	
(c) What are the functions of specimens J when used in the tracto	

	(d) Compare specimens J and I and then give what may have cause in the two specimens.	the differences (02 marks)
		• • • • • • • • • • • • • • • • • • • •
4.	You are provided with specimen K which is an animal product.	
	(a) Identify the faults on specimen and their causes.	(05marks)
		• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •
		•••••
		• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •
	(b) Describe the procedure of treating specimen K so that it can fetch the market.	a high price in (05 mark)
		• • • • • • • • • • • • • • • • • • • •

	or erecting a barbed wire fence.	
	scribe the observable features that make specimens P, Q α ir functions.	and S suitabl (03 mark
	P	
•••••	Q	• • • • • • • • • • • • • • • • • • • •
•••••	S	
		• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •
	nat practices should a farmer do so that specimen R is not afaditions?	fected by we (01 mark
(i)		
(ii)		
(c) Des	scribe how specimens P, Q, R, S and T are used in order referece.	to erect a ba (05 mark

• • •	• •	• •	• • •	• •	• •	• •	• • •	• •	• •	• •	• •	• •	• •	• •	• • •	• • •	• • •	• • •	• • •	• •	• • •	• •	• • •	• • •		• •	• •	• •	• •	• • •	• • •	• •	• • •	• • •	• •	• • •	• • •	• •	• •	• • •	• • •	• •	• •	• • •	• • • •	٠
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(d)		Su	_	-)	W	'a	ys	3]	in	١	wl	hi	cł	1	sţ	pe	eci	in	ne	n	R		ca	ın	b	e	n	na	in	tai	ne	ed	i	n	g	oc	od	V	vo	rk	in	g
	((ii))	•					••						••	••											• • •							•••		••	• •				• •				•••	

END