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 Aand 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) (1)	Explain the differences in the time taken for the first drop to soil samples A and B.	(02 marks)
, ,	Explain the differences in the amount of water that passed th samples after five minutes.	(02 marks)
	rulate the percentage of water that was retained in specimen A.	

	ICiai	ned can be im	nproved.				(01 mark)
•••••	• • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
		•••••					•••••
(ii)	Wha	t is the impor	tance of the	results of	the experin	nent to th	ne farmer? (01 mark)
• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
		•••••					• • • • • • • • • • • • • • • • • • • •
You are arable la	_	ided with spe	ecimens C, I	O, E and F	which are	commor	n plants foun
	rvatio	til you breat				_	ens in the ta
Delov	w.						(03 marks
Specim		Observations			Classifica	tion	(03 marks
		Observations			Classifica	tion	(03 marks
Specim		Observations			Classifica	tion	(03 marks
Specim C D		Observations			Classifica	tion	(03 marks
Specim		Observations			Classifica	tion	(03 marks
Specim C D	g obs	Observations servable feat		why each			successful a
Specim C D E	g obs			why each			successful a
Specim C D E	g obs			why each			successful a
Specim C D E	g obs			why each			successful a (04 marks

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

3.

	Н	
•••••		• • • • • • • • • • • • • • • • • • • •
	m your observations in (a) above which parts of the tractor	
spe	cimens used? Give a reason for your answer.	(03 marks)
	J	
	J	
• • • • • • • •		• • • • • • • • • • • • • • • • • • • •
	Reason	
	G	
•••••		••••••
•••••		• • • • • • • • • • • • • • • • • • • •
	Reason	
	Н	
•••••		
	Reason	
	Reason	
•••••		
(c) Wh	at are the functions of specimens J when used in the tractor?	(02 marks)
		,
•••••		• • • • • • • • • • • • • • • • • • • •
•••••		• • • • • • • • • • • • • • • • • • • •

in the two specimens.	(02 marks)
You are provided with specimen K which is an animal prod	uct.
(a) Identify the faults on specimen and their causes.	(05marks)
(b) Describe the procedure of treating specimen K so that it the market.	can fetch a high price ir (05 mark)
	• • • • • • • • • • • • • • • • • • • •

You are	re provided with specimens P, Q, R, S and T which are materials a	and t
	or erecting a barbed wire fence.	
	scribe the observable features that make specimens P, Q and S suit r functions. (03 n	
	P	
	Q	
••••••		
••••••	S	
	at practices should a farmer do so that specimen R is not affected by ditions? (01 n	
(i)		
(ii)		• • • • • •
• • • • • • • • • • • • • • • • • • • •		
() D		1
	scribe how specimens P, Q, R, S and T are used in order to erect see fence. (05 n	

	• • • • • • • • • • • • • • • • • • • •
(d) Suggest two ways in which specimen R can be maintained in g conditions.	good working
(i)	
(ii)	

END