NAME:	INDEX	DATE
SCHOOL:		
443/1		
AGRICULTURE (THEORY)		
PAPER 1		
JULY / AUGUST, 2010		
2 HOURS		

KISUMU NORTH AND EAST DISTRICTS JOINT TEST Kenya Certificate of Secondary Education 2010

443/1 AGRICULTURE (THEORY) PAPER 1 JULY / AUGUST 2010

INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided above. Sign and write the date of the examination in the spaces provided above
- ❖ This paper consists of three sections :A, B and C
- ❖ Answer **ALL** questions in section A and B
- ❖ Answer **TWO** questions in section C in the spaces provided

SECTION A (30 MARKS)

Answer ALL questions	from this section	in the spaces Provide	d
	,	_	_

1.	Give two reasons why farmers are advised to use certified seeds for planting	(1 mk)

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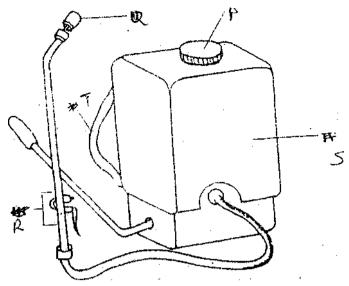
		•••••••
2.	List four methods of drainage used in Kenya	(2mks)
3.	Give three methods of practicing rotational grazing	(1½mks)
4.	State four ways of modifying soil pH	(2mks)
5.	State four measures a farmer may employ in order to adjust to uncertainty	(2mks)
		••••••
		•••••
6.	List four cultural methods of pest control in crop production	(2mks)
		•••••
7.	Name four human factors that influence the efficiency of agricultural product	ion
		(2mks)
		••••••

8.	State four ways through which one would acquire land	(2mks)
9.	Give four benefits of correct plant population in annual crops	(2mks)
		• • • • • • • • • • • • • • • • • • • •
		•••••
10	. State 2 advantages of propagating tea using cuttings	(1mk)
11	. Give four reasons why we treat water for use in the farm	(2mks)
12	. Differentiate between over sowing and under sowing as used in pasture estab	lishment.
		(1mk)
13	. Give three advantages of tissue culture	(1½mks)
14	List any four financial documents as used in agricultural economics.	(2mks)
		••••••
		••••••

15. State four disadvantages of overhead irrigation	(2mks)
	••••••
	••••••
	••••••
16. List four characteristics of clay soils	(2mks)
17. Mention four factors that influence spacing in a pure sorghum stand	(2mks)
	•••••
	•••••

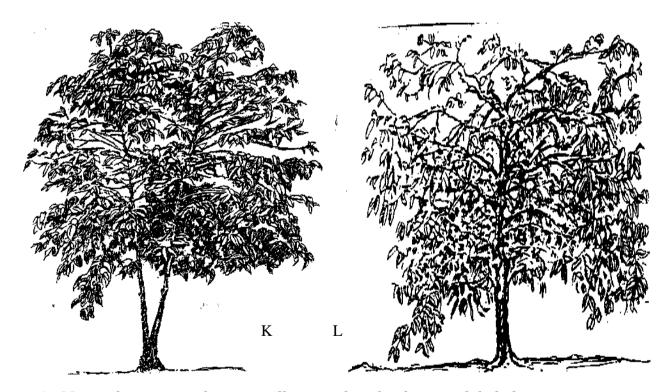
SECTION B (20 MARKS) Answer ALL the Questions in this section in the spaces provided

18. The diagram below shows an equipment used in crop production. Study it and answer the questions that follow



(i) Identif	(i) Identify the equipment			
••••••				
(ii) State t	the functions of the parts labelled P and Q	(2mks)		
Part	Functions			
P				
Q				
(iii) Sta	te one use of the equipment illustrated above.	(1mk)		
(iv) Giv	re one routine maintenance practice that should be car	rried out on the		
equipn	nent above	(1mk)		
••••				
•••••		• • • • • • • • • • • • • • • • • • • •		
• • • • • • • • • • • • • • • • • • • •				
•••••				
. Calculate	the elasticity of supply if the price of wheat changes fro	om ksh.10.00 to ksl		
12.00 per	kg resulting in a change of supply from 400kg to 600kg	. (show your		
working)		(5mks)		

20. Below are diagrams K and L showing coffee plants established using two different formative prunning systems. Study them and then answer the questions that follow



a)	Name t	he system	of pruning	illustrated	l in the a	diagram l	abele	∍d

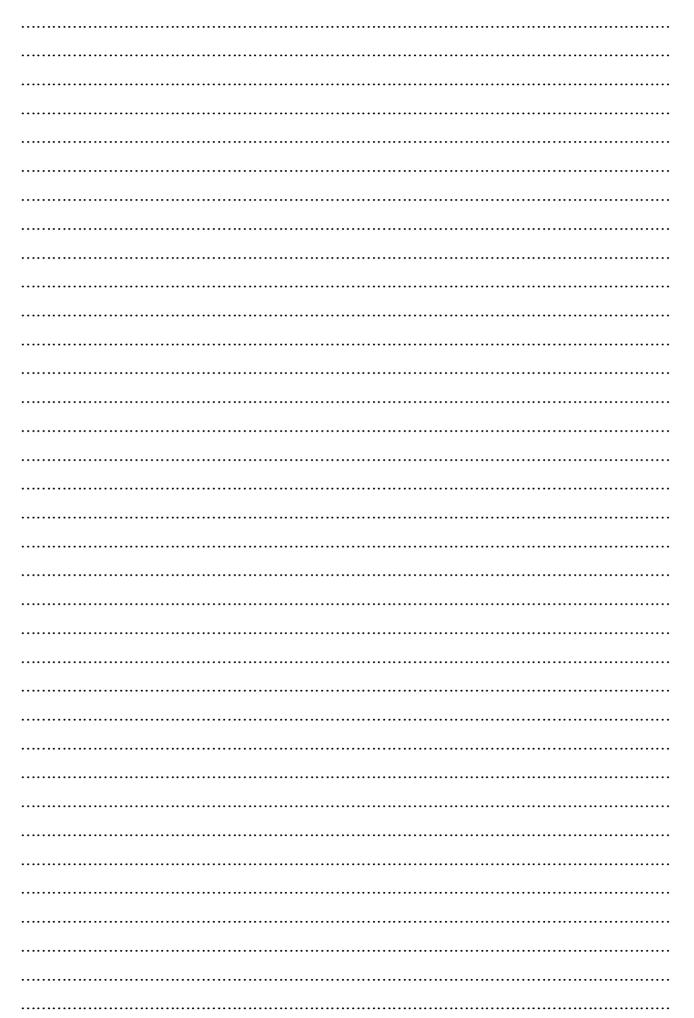
K.....(1mk)

L.....(1mk)

b) Describe the procedure of carrying out the pruning system labeled K (3mks)

•••••						•••••
	•••••	• • • • • • • • • • • • • • • • • • • •	••••••		•••••	
21.The	illustration b	elow depicts a	method of mal	king compost.		
		· /	> />			
	PIT	PIT	PIT	PIT	PIT	
	1	2	3	4	5	
L					L	
(i) I	dentify the m	ethod of maki	ng the compost	illustrated abo	ove (lmk)
•						
(ii) I	Describe the p	process of fillin	g the first pit		(4mks)
•	• • • • • • • • • • • • • • • • • • • •		•••••			
•	• • • • • • • • • • • • • • • • • • • •	•••••	••••••	• • • • • • • • • • • • • • • • • • • •	•••••	•••••
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C/DT O 1	N. C					_
			r any two que	estions from tl	nis section ir	<u>the</u>
		question 24			1	0l\
42.a) 10	ientily the tw	o main catego	ries of land ter	iure systems	()	2mks)
••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •

b) Describe the effects of fragmentation and subdivision of land	(14mks)
c) What advantages does a farmer holding a title deed have over one who	o doesn't
have	(4mks)
	• • • • • • • • • • • • • • • • • • • •
	• • • • • • • • • • • • • • • • • • • •
23. Discuss the factors that influence soil erosion	(20mks)
24. Describe the cultural methods a farmer would employ to control crop pes	
	(20mks)
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