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443/1
AGRICULTURE
PAPER 1
JULY / AUGUST 2013
TIME: 2 HOURS

NANDI SOUTH, NANDI EAST AND TINDERET DISTRICTS JOINT EVALUATION TEST 2013

Kenya Certificate of Secondary Education (K.C.S.E.)
AGRICULTURE
PAPER 1
TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) Write your **Name**, **Index number** and **School** in the spaces provided above.
- (b) **Sign** and write the **Date** of Examination in the spaces provided above.
- (c) This paper consists of THREE Sections A, B and C.
- (d) Answer ALL questions in Section A and B and any TWO questions in Section C.
- (e) Answers should be written in the spaces provided.
- (f) Candidates should check to ensure that no questions are missing.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAX. SCORE	CANDIDATE SCORE
Α	1 – 16	30	
В	17 – 22	20	
	23	20	
С	24	20	
	25	20	
Total		90	
Score			

SECTION A (30 MARKS)

Answer ALL Questions in the Spaces Provided

	1.	(a) What is a farming system?	(½mk)
		A Committee of the comm	
		(b) Highlight three factors that affect production scale.	(1½mks)
		zigi [×]	
	2	(i) State four policies the Kenyan government should institute to reduce	
	۷.	goods.	(2mks)
		eest	
40	& C	······································	
Eof We		(ii) Give <u>two</u> positive effects of wind in Agriculture.	(1mk)
	3.	State four reasons why land should be prepared before onset of rains.	(2mks)
	4.	Outline four circumstances under which one would choose to use surfa	ace irrigation.
			(2mks)
	5.	(i) What is salination.	(½mks)
		(ii) State three effects of salination in crop production.	(1½mks)

6.	Name <u>two</u> constituents of a breeding record	(1mk) 	
7.	Give a reason why nitrogenous fertilizers:	(1mk)	
	(i) Should be applied to moist soils:		
	(ii) Should be applied to established crops:		
8.	(a) State four disadvantages of using vegetative material in crop propagation		
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Wolfe	(b) Describe <b>four</b> importance of a nursery in crop propagation.	(2mks)	
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		•••••	• •
			•••
9.	List two methods of pruning crops.	(1mk)	
10	. State <b>four</b> effects of too much nitrogenous fertilizers in production of to	omatoes.	
		(2mks)	
			• • •
			•••
			• • •
11	.(a) State <u>four</u> causes of land fragmentation and land sub-division.	(2mks)	
	(a) 1 mar <u>-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1</u>		
	(b) Classify weeds on the basis of plant morphology.	(1mk)	
			• • •

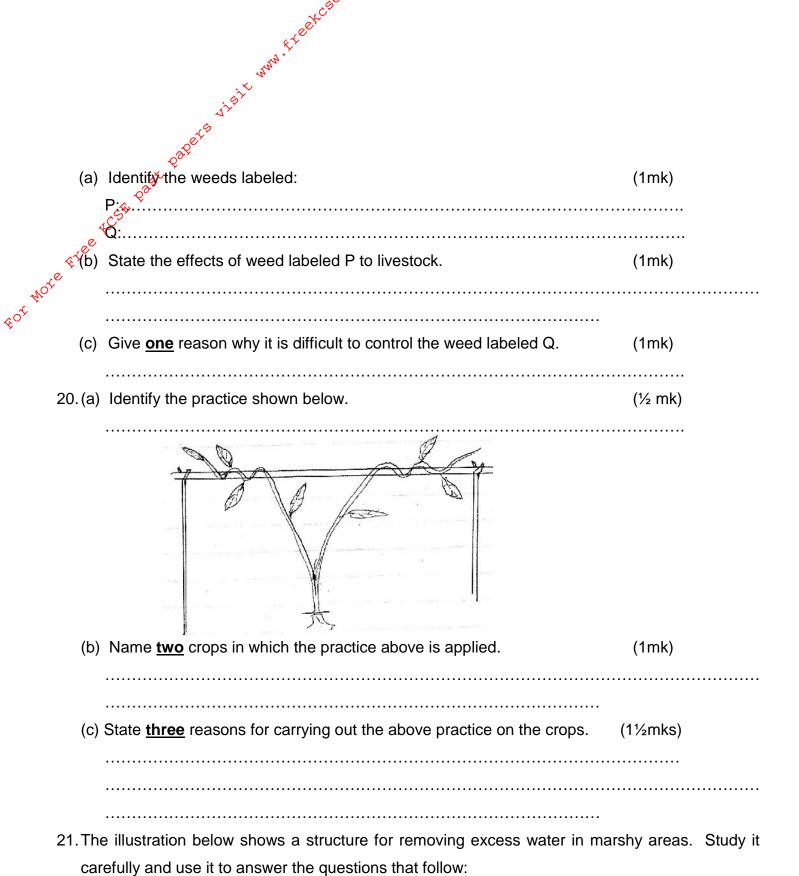
12. State three effects of mass wasting (solifluction)	(1½mks)
· · · · · · · · · · · · · · · · · · ·	
13. Define the following terms:	(1mk)
(i) Integrated Pest Management:	
· · · · · · · · · · · · · · · · · · ·	
(ii) Economic Injury Level (EIL):	
14. State <b>two</b> reasons for burning sugarcane fields before harvesting.	(1mk)
	,
L'EST	
15. (a) State <u>two</u> effects of early defoliation.	(1mk)
Note	(TTIIK)
h	
(b) State the law of substitution.	(1mk)
(b) State the law of substitution.	(TITIK)
16. Give <u>two</u> sites for Agroforestry trees.	(1mk)
10. Give two sites for Agrolofestry frees.	(Tillik)
SECTION B (20 MARKS)	
Answer all questions in the spaces provided in thi	s section
17. Form one students of Mang'ure High School set up an experiment as	
aspect of soil. The set up was left for six hours. Study it and answer	
•	4
Rubber corks	
Fresh garden String	Strongly heated
muslin bag Conical flask	garden soil
	in muslin bag
	===1
Lime water	
(a) What was the aim of the experiment?	(1mk)
	,

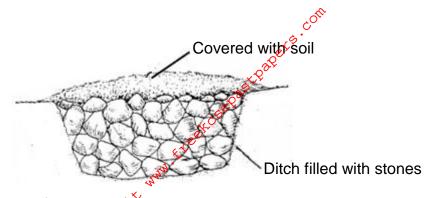
(b)	State <u>one</u> observation that was made in each of the flasks C and D.	(1mk)
	C:	
	D:	
(c)	Why was the soil in flask D strongly heated?	(1mk)
	with.	
18. The	e diagram below represents a crop pest. Study it and answer the question	ns that follow:
e fi ^{te}	Coth Page Land	
(a)	Identify the pests.	(½ mk)
(b)	Which type of mouth parts are possessed by the pests?	(½ mk)
(c)	State the kind of damage caused by the pests and its effect on crop deve	
	(1mk)	
(d)	Why is the infestation of the pest regarded as an epidemic?	(1mk)

19. The diagram below illustrate common weeds in arable land. Study them carefully and answer the questions that follow:









(a) Identify the structure.	(1mk)
(b) Explain how the above structure remo	ves excess water in waterlogged areas.
, pati y	(2mks)
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e ^{zee}	

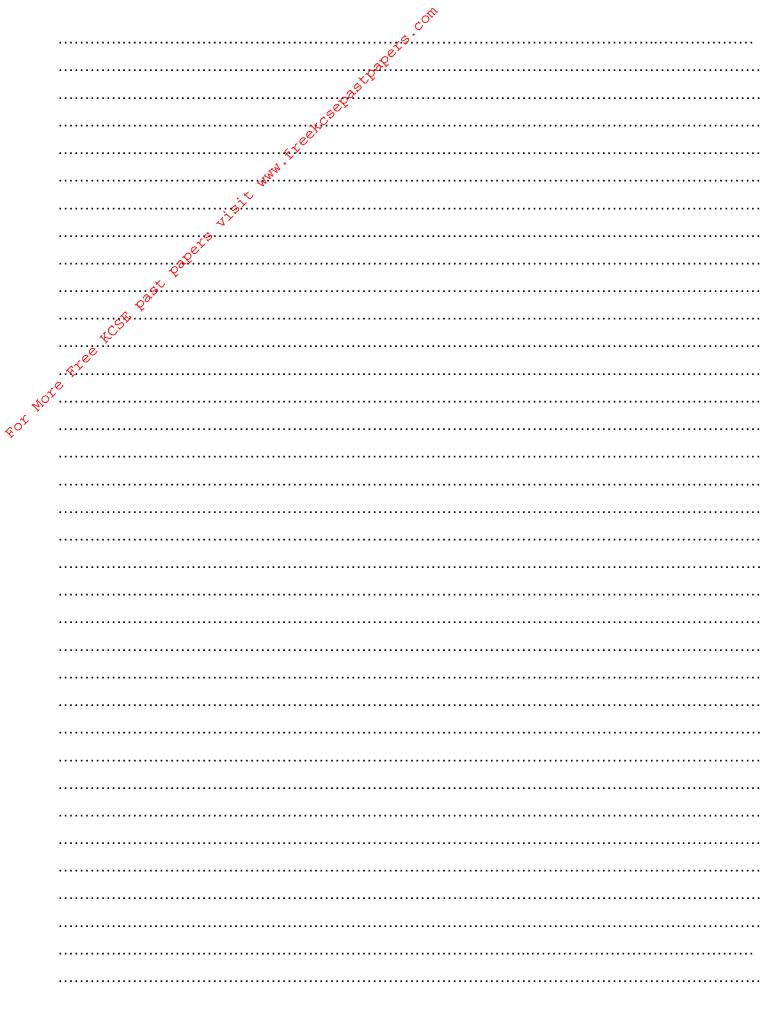
22.Mr. Murei wishes to know whether replacing 3 hectares of maize with potatoes the following season would be worthwhile. The fertilizer would be increased from sh. 4,000 per hectare to sh. 6,000 per hectare. He will also incur cost on maize seeds at sh. 1200 per hectare and potatoes seeds at sh. 3,000 per hectare. The produce from maize was totaling sh. 90,000 and for potatoes will be totaling sh. 120,000.

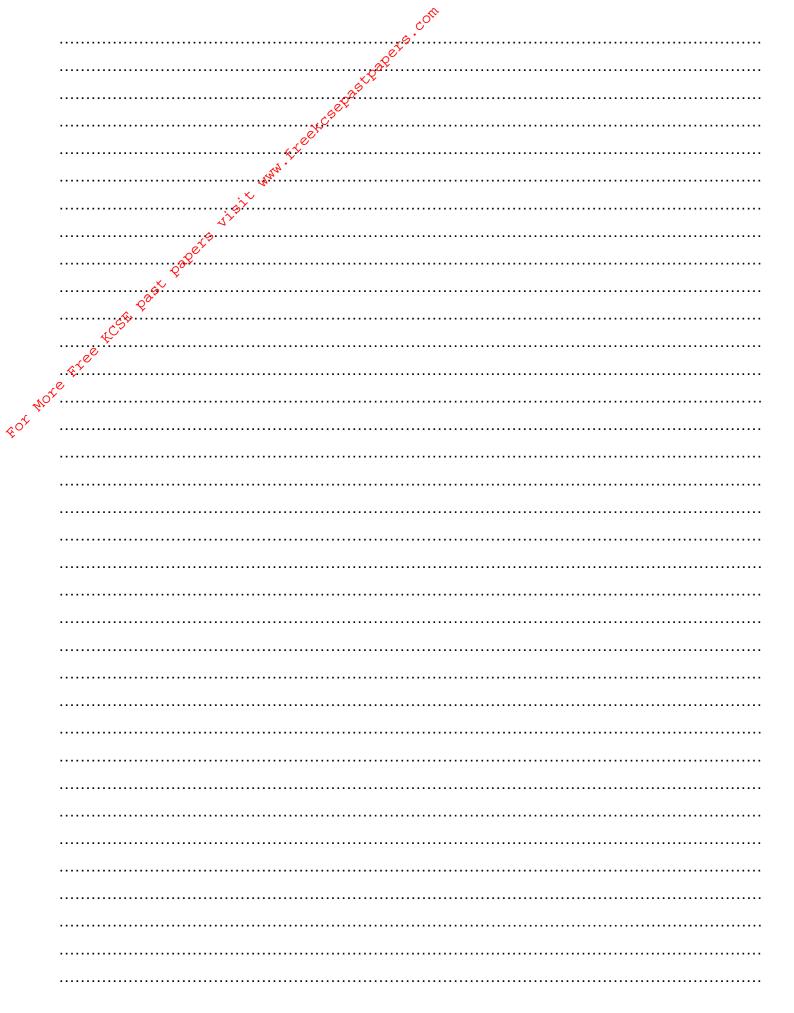
Prepare a partial budget to justify Mr. Murei's wish.

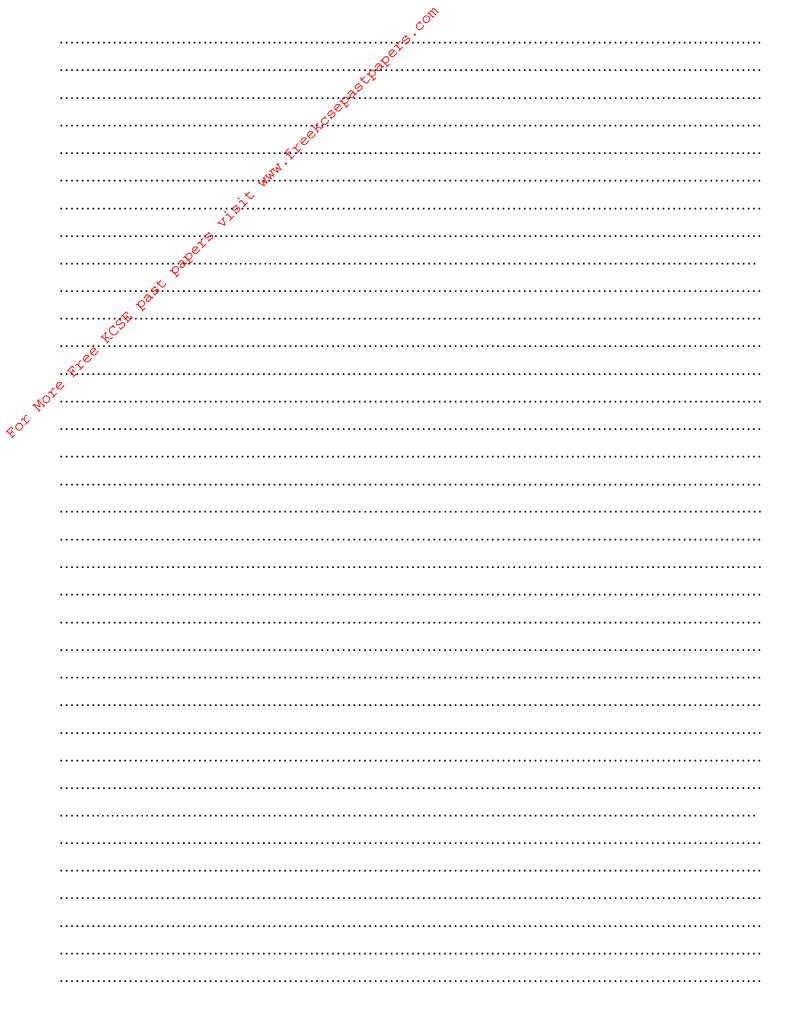
(5mks)

## SECTION C Answer any two questions in the spaces provided

	23. (a)	Describe <u>five</u> factors that determine the quality of farmyard manure.	(5mks)
	(b)	Give <u>five</u> reasons why minimum tillage is practiced.	(5mks)
	(c)	Describe five cultural methods of pest control.	(5mks)
	(d)	Explain <u>five</u> roles of trees in soil and water conservation.	(5mks)
	24. (a)	Outline <u>five</u> advantages of Land consolidation in agricultural productions.	(5mks)
	(b)	i) Name <u>four</u> types of books in the farm accounts.	(4mks)
		ii) List the information in the receipts.	(5mks)
	(c)	State <b>six</b> sisadvantages of tillage operation in weed control.	(6mks)
	25. (a)	Describe how sugarcane is harvested until it is ready to mill sugar at the fa	actory
	4 _0		(5mks)
	څ ^ر (b)	What are the advantages of mixed grass-legume pasture over pure grass	pasture?
5 [¢]			(5mks)
	(c)	Explain the marketing functions in Agriculture.	(10mks)
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