



Name	
443/1 AGRICULTURE	Candidate's Signature
Paper 1 Oct./Nov. 2012	Date
2 hours	



#### THE KENYA NATIONAL EXAMINATIONS COUNCIL

Kenya Certificate of Secondary Education

AGRICULTURE

Paper 1 2 hours

443/1 - Agriculture - P1

Wednesday 10.30 am - 12.30 pm 14/11/2012 (2nd Session)

#### Instructions to candidates

- (a) Write your name and index number 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 the questions in sections A and B and any two questions from section C.
- (e) Answers should be written in the spaces provided.
- (f) This paper consists of 16 printed pages.
- (g) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

For Examiner's Use Only

Section	Questions	Maximum Score	Candidate's Score
A	1 - 16	30	
В	17 - 22	20	
C		20	
· [		20	
Total	Score	90	*

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### SECTION A (30 marks)

Answer ALL the questions in this section in the spaces provided.

1	Nam	e the part narvested for each of the following crops:	
	(a)	onions	
			( /: mark)
	(b)	carrots	
	(c)	coffee	
			(/: <del>==k</del> )
2	State	four biotic factors that influence crop production.	(2 marks)
	******		
3	Nam	ne four methods of controlling crop pesss.	(2 marks)
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4	State four ways of harvesting water on the farm.	(2 marks)
5	Name four farm records that should be kept by a poultry farmer.	(2 marks)
6	State four disadvantages of using organic manure in crop production.	(2 marks)
7	Give two ways in which pastures are classified.	(1 mark)
8	State four disadvantages of organic mulches.	(2 marks)
		***************************************

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	4	
9	Give five advantages of practising crop rotation.	(2½ marks)
	······	
10	State two advantages of earthing up in crop production.	(1 mark)
11	Give four harmful effects of weeds on crop production.	(2 marks)
12	State three advantages of shifting cultivation.	(1½ marks)
13	Give five advantages of zero grazing in dairy farming.	(2½ marks)

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	5	
14	State four factors that determine the stage at which a crop is harvested.	(2 marks)
15	State four ways in which land reform can be implemented in Kenya.	(2 marks)
16	Give four factors that influence the number of secondary cultivations in seedbe	ed preparation. (2 marks)
	·	

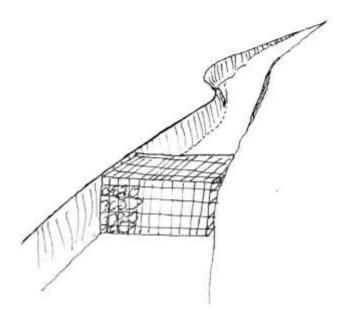
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#### 6 SECTION B (20 marks)

Answer ALL the questions in this section in the spaces provided.

17 The illustration below shows a structure used for controlling soil erosion. Study it carefully and answer the questions that follow.



(a)	Identify the structure.	(1 mark)
(b)	Explain <b>two</b> ways in which the structure helps to control soil erosion.	(2 marks)
******		

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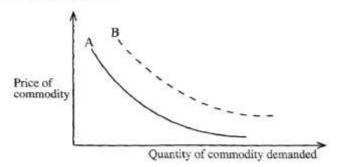
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18 The diagram below illustrates the law of demand in agricultural marketing. Study it and answer the questions that follow.



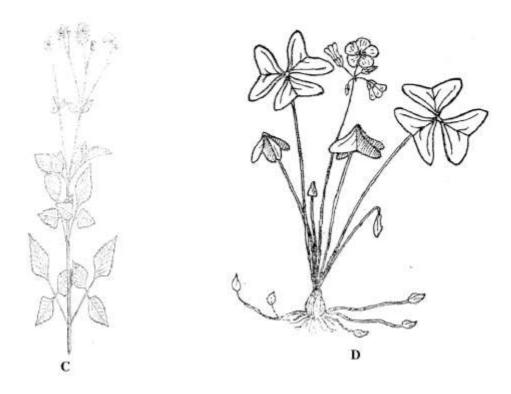
(a)	Give a reason for the shape of the curve labelled A.	(1 mark)
(b)	If the price of the commodity remains constant, explain three facurve to shift from A to B.	ctors that can cause the (3 marks)
	······································	

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



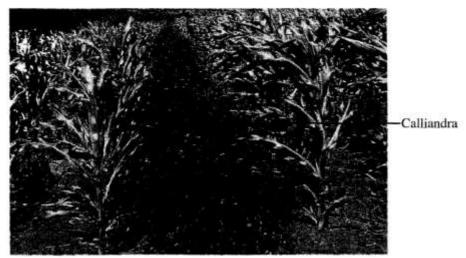
(a)	Identify the weed labelled <b>D</b> .	(1 mark)
(b)	Classify the weed labelled C according to plant morphology.	(1 mark
(c)	Give one reason why it is difficult to control the weed labelled D.	(1 mark
******		

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20 The diagram below illustrates an agroforestry practice. Study it and answer the questions that follow:



(a)	Identify the agroforestry practice illustrated above.	(1 mark
(b)	Explain three benefits of the practice illustrated above.	(3 marks
*******		
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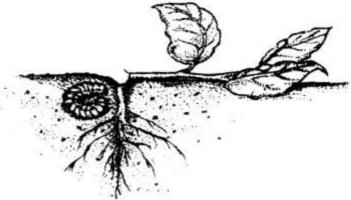
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21 The diagram below shows a pest and the damaged crop. Study it and answer the questions that follow.



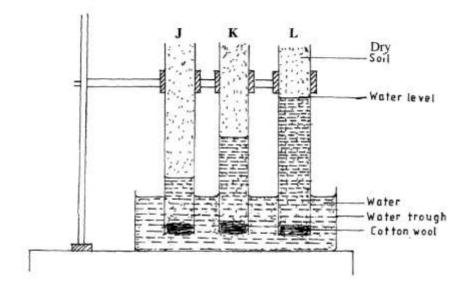
(a)	Identify the crop pest illustrated above.	(1 mark)
(b)	Explain two ways of controlling the pest.	(2 marks)
•••••		

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22 The diagram below illustrates an investigation on a property of soil using soil samples labelled J, K and L.



(a)	If the levels of water shown in the diagram were observed after three h property of soil being investigated.	ours, name the (1 mark)
******		***********************
(b)	What is the relationship between the soil property named in (a) above soil particles?	and the size of (1 mark)
******		
(c)	Which soil sample would be suitable for growing paddy rice?	(1 mark

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#### SECTION C (40 marks)

Answer any TWO questions from this section in the spaces provided after question 25.

23	(a)	Explain five factors that should be considered in farm planning.	(10 marks)
	(b)	Describe the transplanting of tomato seedlings.	(10 marks)
24	(a)	Explain five factors that should be considered when siting a vegetable	nursery. (5 marks)
	(b)	Explain six factors that should be considered when selecting seeds for planting.  (6 marks)	
	(c)	Explain the different ways in which each of the following environmental factors influence crop production:	
		(i) temperature;	(4 marks)
		(ii) wind.	(5 marks)
25	(a)	Outline the information contained in a Purchase Order.	(5 marks)
	(b)	Describe the harvesting of tea.	(6 marks)
	(c)	Explain the importance of irrigation in crop production.	(5 marks)
	(d)	Describe the role of magnesium in crop production.	(4 marks)

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