

NAME: INDEX NO:

SCHOOL: DATE:

CANDIDATE'S SIGNATURE:

443/1
AGRICULTURE
PAPER 1
JULY/AUGUST 2014
TIME: 2 HOURS

KISUMU WEST SUB-COUNTY JOINT EVALUATION 2014
Kenya Certificate of Secondary Education (K.C.S.E)

AGRICULTURE
PAPER 1

INSTRUCTIONS TO CANDIDATES:

- Write your **name** and **index number** in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- This paper consists of three section **A, B** and **C**
- Answer **all** the questions in section **A** and **B**
- Answer any **two** questions in section **C**.
- Answers should be written in the spaces provided in this booklet.

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAX SCORE	CANDIDATES SCORE
A	1-16	30	
B	17-20	20	
C		20	
		20	
TOTAL		90	

This paper consists of 8 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

SECTION A (30 MARKS)

Answer all questions in this section in the spaces provided.

1. Name **four** processes of biological weathering. (2mks)

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2. Name **four** types of records a maize farmer should keep (2mks)

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3. (a) What is mixed farming ? (1mk)

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(b) Give **three** disadvantages of mixed farming to a small scale farming. (1½mks)

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4. State **three** ways in which trees improve soil productivity. (1½mks)

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5. List **four** minimum tillage farming practices (2mks)

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6. Give **two** routine maintenance practices on water storage tanks. (1mk)

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7. List **four** examples of joint products in livestock production (2mks)

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8. State **four** examples of variable inputs in sorghum. (2mks)

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9. State **four** effects of pests with both piercing and sucking mouth parts on crops. (2mks)

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10. State **two** ways of breaking seed dormancy during the preparation of planting materials. (1mk)

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11. State **three** importance of tissue culture in crop production (1½mks)

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12. List **four** financial documents that should be kept on a farm (2mks)

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13. State **four** advantages of applying lime as a measure of improving soil condition (2mks)

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14. State **four** effects of mass wasting (2mks)

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15. Define the following terms as used in crop production. (3mks)

(a) Capping

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(b) De – suckering

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(c) Changing the cycle

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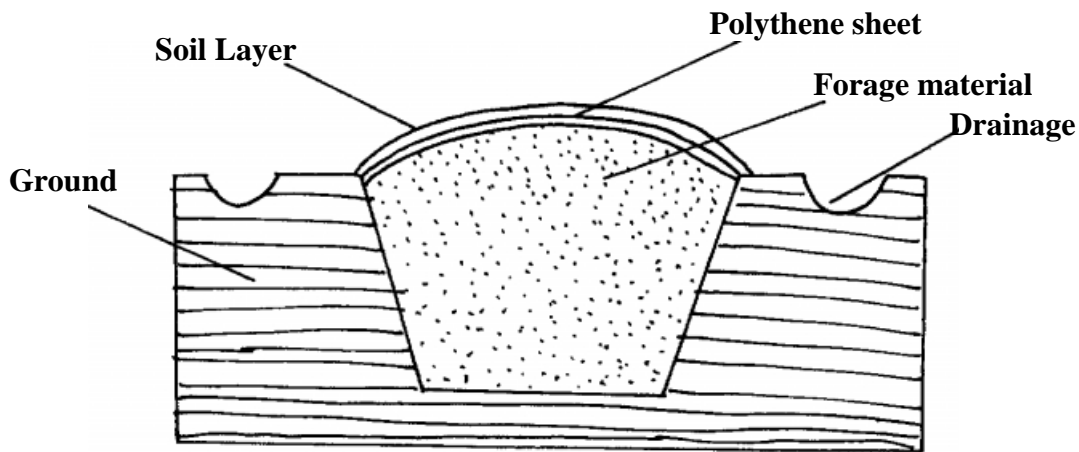
16. List **three** sources of organic matter in the soil (1½mks)

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SECTION B (20MARKS)

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

17. (a) The diagram below shows a method of forage preservation



(i) Identify the structure illustrated above (1mk)

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(ii) State the form in which the forage is preserved as illustrated above. (1mk)

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(iii) Give the role of each of the following in the structure above (2mks)

i. Polythene sheet:

.....

ii Drainage:.....

.....

(b) Name **one** other method of forage preservation. (1mk)

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.....

18. The following table gives the weekly demand and supply schedules of potatoes.

Price per kg (shs)	Demand in millions of kgs	Supply in millions pf kgs
10	23	59
9	30	57
8	36	54
7	41	50
6	45	45
5	48	39
4	50	32
3	51	25

Use the table to answer the following questions

(a) What is the equilibrium price? (1mk)

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(b) State the effects of a government imposing a maximum price of:

(i) Ksh 5 per kg: (1mk)

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(ii) Ksh. 7 per kg: (1mk)

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(c) If the government guaranteed a potato supply at price of Ksh . 7 per kg , what quantity would it have to purchase to maintain this price? (1mk)

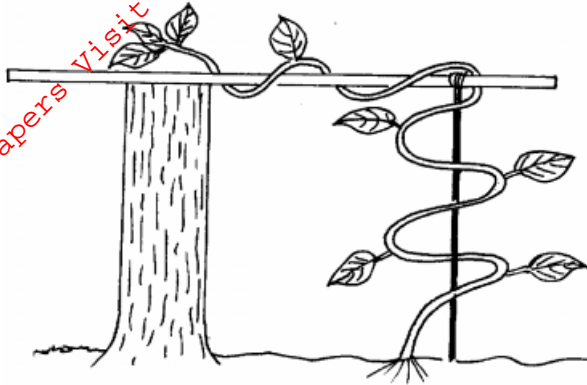
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d) If alternatively the government bought all the potatoes on offer at Ksh. 7 kg , what price would it have to change the consumers to dispose of this quantity? (1mk)

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19. (a) The diagram below illustrates a field management practice carried out on a fruit crop.



(i) Identify the practice illustrated above. (1mk)

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(ii) Give **two** reasons for carrying out the practice illustrated in the above diagram. (2mks)

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(b) Give a reason why it is not advisable to use manure in carrot production. (1mk)

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20. (a) What is land fragmentation ? (1mk)

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(b) State **three** causes of land fragmentation (3mks)

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(c) State **two** objectives of settlement and resettlement. (2mks)

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SECTION C (40 MARK)

Answer any two questions in this section in the spaces provided at the end of the section

21. (a) State and explain any **five** cultural methods of controlling weeds (10mks)
 (b) Explain the harmful effects of pests on crops (10mks)
22. (a) Describe field production of dry beans under the following sub headings:
 (i) Land preparation: (4mks)
 (ii) Planting (6mks)
 (b) Explain **five** ways by which a farmer can adjust to risks and uncertainty. (10mks)
23. (a) Describe **ten** safety precautions that should be taken when using herbicides to control weeds. (10mks)
 (b) Explain **ten** farming practices which help to conserve soil on a farm (10mks)

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