

Name:

Index No.

Candidate's Signature:

Date:

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

KIKUYU DISTRICT INTERSCHOOLS EVALUATION
KENYA CERTIFICATE OF SECONDARY EDUCATION

443/1
AGRICULTURE
PAPER 1
JULY / AUGUST 2013
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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 consist of THREE sections A, B and C.
- Answer ALL the questions in section A, B and any two questions from section C.
- All answers must be written in the spaces provided in this booklet.

Section	Questions	Maximum score	Candidate's score
A	1- 19	30	
B	20 - 23	20	
C		20	
		20	
	Total score		

*This paper consists of 12 printed pages.
Candidates should check the questions to ensure that all pages are printed as
indicated and no question(s) are missing*

SECTION A: (30 MARKS)

Answer ALL questions in this section in the spaces provided.

1. Give any **two** farming methods. (1mk)

2. List any **three** ecological factors that affect crop production in Kenya. (1½ mks)

3. Name **two** examples of straight fertilisers. (1mk)

4. State the difference between liquid capital and working capital in agriculture production. (1mk)

5. Give **four** factors that influence crop rotation. (2mks)

6. State **four** advantages of sub - surface irrigation. (2mks)

7. State **three** deficiency symptoms of sulphur in crops. (1½ mks)

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8. State **two** reasons that make a farmer fail to get profit from his/her enterprise. (1mk)

9. Mention any **three** types of farm records that a farmer should keep. (1½mks)

10. Name **three** agricultural activities that can be used to increase light intensity in crops. (1½mks)

11. Give **two** factors that determine the quality of hay. (1mk)

12. Outline **four** methods of improving drainage in waterlogged soils. (2mks)

13. Give the scientific term for the following:-

a) Study of crop diseases (1mk)

b) Study of plants and animal breeding. (1mk)

14. State **four** ways of preparing planting materials before planting. (2mks)

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15. Mention **four** factors that influence the rate of soil erosion. (2mks)

16. List **four** insect pests that attack maize in the field. (2mks)

17. Identify **two** precautions to be taken when harvesting pyrethrum. (1mk)

18. Name **four** pieces of information that may be found in a delivery note. (2mks)

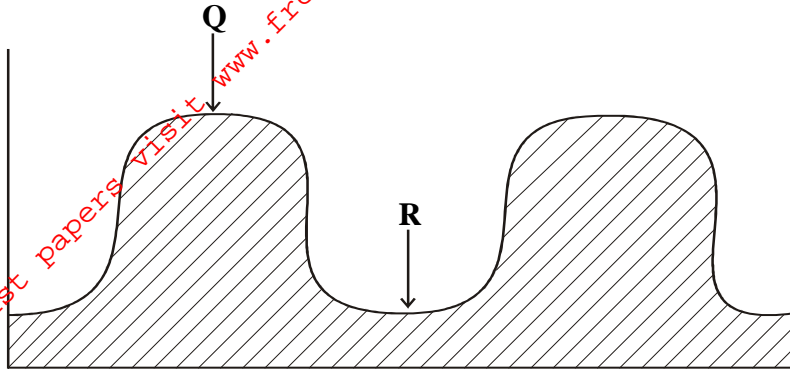
19. Distinguish between topping and re-seeding as used in pasture crops. (2mks)

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SECTION B: (20 MARKS)

Answer ALL the questions in the space provided.

20. Below is a land preparation operation. Study it and answer the questions that follow.



a) Identify the operation. (1mk)

b) Name the parts Q and R. (1mk)

Q

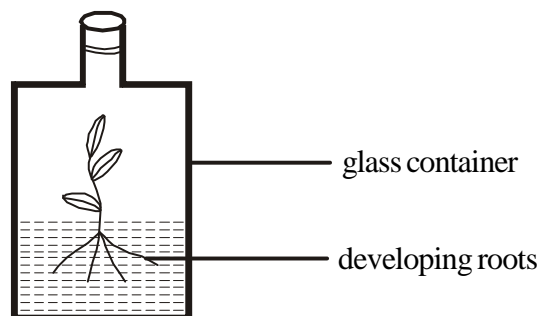
R

c) Name **one** crop that can be planted in part labelled R. (1mk)

d) What is the advantage of planting the crop named in (c) above in the part labelled R. (1mk)

e) Identify **one** hand tool that can be used to carry out the operation. (1mk)

21. The diagram below illustrates materials and a method of vegetative propagation. Study it and answer the questions that follow.

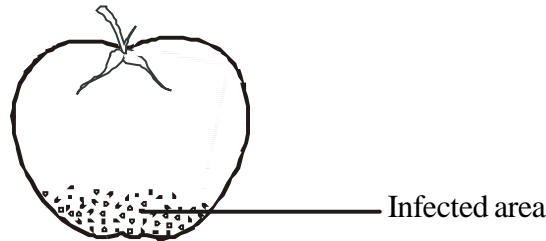


a) Identify the method of crop propagation illustrated above. (1mk)

b) Give **two** advantages associated with the method named in (a) above. (2mks)

c) State **two** characteristics of certified seeds. (2mks)

22. Below is an illustration of a tomato fruit that is attacked by a certain disease. Study it carefully and answer the questions that follow.



a) Name the disease. (1mk)

b) State **two** possible causes of the disease named in (a) above. (2mks)

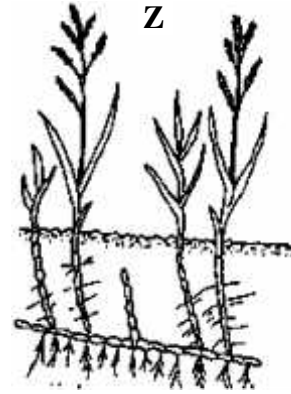
c) Name **one** other tomato disease and its control measure. (2mks)

Disease

Control measure

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23. The diagram below illustrates some common weeds. Study it carefully and answer the questions that follow.



a) Identify the weeds labelled;

(2mks)

Y

Z

b) State **one** economic importance of weed Y and Z named in (a) above.

(2mks)

Y

Z

c) Mention **one** factor that make weed X effectively competitive.

(1mk)

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SECTION C (40 MARKS)

Answer any two questions in the spaces provided in this booklet.

24. a) Briefly explain **six** advantages of farm yard manure (FYM) over straight fertilisers. (6mks)
 b) Describe the procedure of soil sampling. (10mks)
 c) Discuss any **two** methods of training crops. (4mks)
25. a) Explain any **eight** functions of agriculture marketing. (16mks)
 b) Explain **four** disadvantages of communal land tenure system. (4mks)
26. a) The table below shows the production of maize at various levels of NPK fertilizer application. Study it carefully and answer the questions that follow.

Fixed factor land (1ha)	Variable inputs NPK in kg	Total product maize in 90kg bags	Marginal product maize in 90kg bags	Average product Maize in 90kg bags
1	50	10	0	10
1	100	27	a	f
1	150	42	15	14
1	200	56	b	14
1	250	63	7	12.6
1	300	65	c	g
1	350	65	d	9.3
1	400	60	-5	7.5
1	450	52	e	w
1	500	42	-10	4.2

- (i) Complete the table above. (4mks)
- (ii) Using the graph paper provided, draw a curve of total product, marginal product and average product against variable input on the same axis. (7mks)
- (iii) Mark the zones of production in the graph. (3mks)
- (iv) Of zones marked in questions (iii) above, which one should the farmer operate in? (2mks)
- b) Explain **four** characteristics of trees/shrubs suitable for Agro-forestry. (4mks)

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