

Name Date

Index No. Class Sign.

443/1
AGRICULTURE
PAPER 1
JULY 2013
2HRS

LARI DISTRICT PRE – K.C.S.E

Kenya certificate of Secondary Education

Agriculture paper 1

INSTRUCTIONS

- Write your name and index number in the spaces provided above.
- Sign and write the date of examination in the space provided above.
- Answer all the questions in sections A, B and any two questions from section C.
- Answers must be written in the spaces provided in this booklet.

FOR EXAMINER'S USE ONLY

Sections	Questions	Maximum Score	Candidate's score
A	1 – 16	30	
B	17 – 20	20	
C	21 – 23	40	
	TOTAL SCORE	90	

SECTION A (30 MARKS)

1. List down two branches of Agriculture. (1mk)
- (i). _____
- (ii). _____
2. State two reasons for land preparation. (1mk)
- (i). _____
- (ii). _____
3. Give two plant parts used in vegetative propagation. (1mk)
- (i). _____
- (ii). _____
4. List two methods of planning (1mk)
- (i). _____
- (ii). _____
5. Give four ways in which soil profile influences crop production (2mks)
- (i). _____
- (ii). _____
- (iii). _____
- (iv). _____
6. List four ways in which soil mineral matter affects agriculture. (2mks)
- (i). _____
- (ii). _____
- (iii). _____
- (iv). _____
7. State four conditions necessary for successful grafting (2mks)
- (i). _____
- (ii). _____
- (iii). _____
- (iv). _____

8. List six post-harvest practices done on crops. (3mks)

- (i). _____
- (ii). _____
- (iii). _____
- (iv). _____

9. How are the following conditions prevented in carrot production (3mks)

- (a) Cracking _____
- (b) Forking _____
- (c) Greening _____

10. State four precautions that should be taken when harvesting tea. (2mks)

- (i). _____
- (ii). _____
- (iii). _____
- (iv). _____

11. List three disadvantages of drip irrigation. (1½mks)

- (i). _____
- (ii). _____
- (iii). _____

12. State five ways of maintaining soil fertility. (2½mks)

- (i). _____
- (ii). _____
- (iii). _____
- (iv). _____
- (v). _____

13. State four characteristics of nitrogenous fertilizers. (2mks)

- (i). _____
- (ii). _____
- (iii). _____
- (iv). _____

14. List four micro-catchment systems. (2mks)

- (i). _____
- (ii). _____
- (iii). _____
- (iv). _____

15. State four adaptations that make weeds cope with various adverse conditions in order to survive. (2mk)

- (i). _____
- (ii). _____
- (iii). _____
- (iv). _____

16. List four ways which are used to control stalk borers in maize. (2mks)

- (i). _____
- (ii). _____
- (iii). _____
- (iv). _____

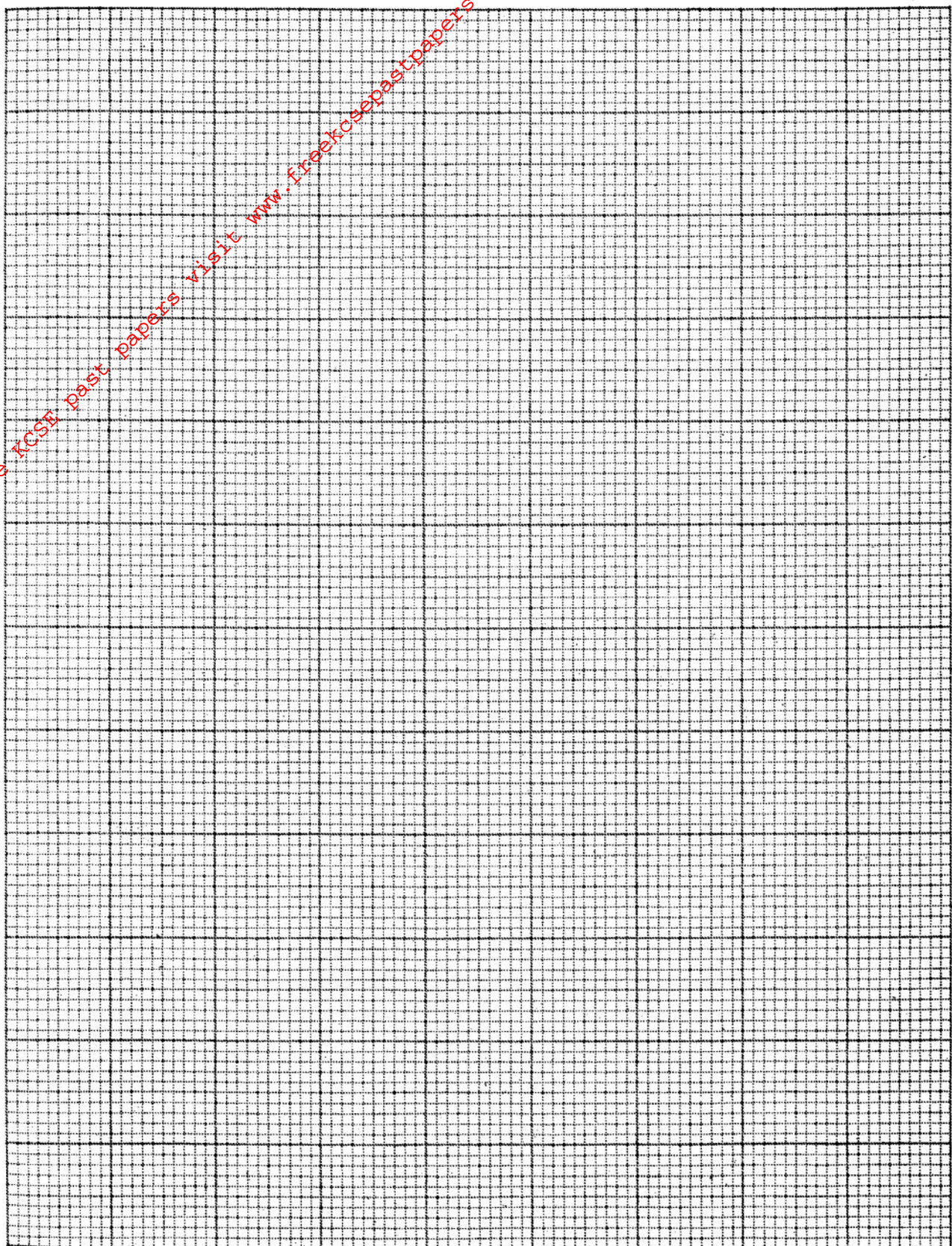
SECTION B (20 MARKS)

17. The following table gives the monthly demand and supply schedule of potatoes in all secondary schools in Kenya. Use it to answer the questions that follow.

Price per Kg	Demand in million of Kgs	Supply in millions of 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

(a) Draw the graph of demand against supply. (2mks)

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(b) What is the equilibrium price?

($\frac{1}{2}$ mk)

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

(i) Kshs. 5 per kg

(½mk)

(ii) Kshs. 7 per kg

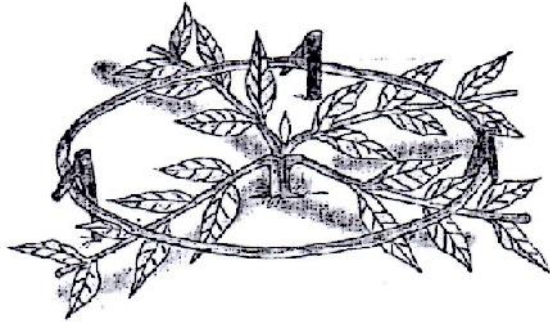
(½mk)

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

(e) State one factor that influences price of a good or service.

(½mk)

18. The diagram below shows a method of bringing tea into bearing. Study it carefully and use it to answer the questions that follow:



(i) Identify the method shown in the diagram.

(1mk)

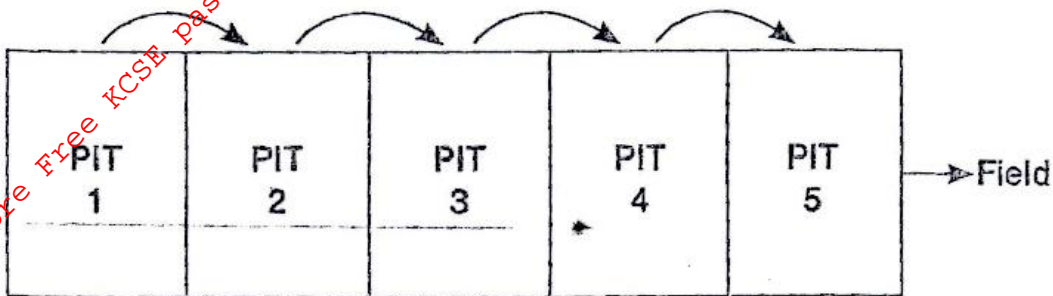
(ii) Why is it necessary to prune a young tea plant as illustrated in the diagram above?

(1mk)

(iii) Outline the procedure followed when using the pruning method shown.

(3mks)

19. The following diagram shows a method of compost preparation



(a) Identify the method.

(1mk)

(b) Give four factors that should be considered when siting the compost pit.

(2mks)

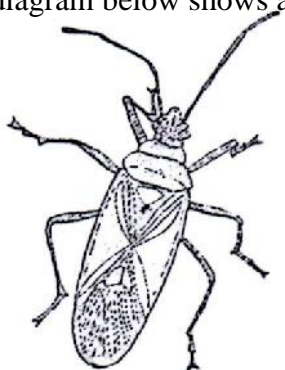
- (i). _____
- (ii). _____
- (iii). _____
- (iv). _____

(c) State two factors that determine the time the manure would be ready for use in the field.

(2mks)

- (i). _____
- (ii). _____

20. The diagram below shows a field crop pest. Study the diagram and answer the question that follows.



(a) Identify the pest. (1mk)

(b) Outline two harmful effects of the pest. (2mks)

(i). _____

(ii). _____

(c) State two methods which are used to control the pest. (2mks)

(i). _____

(ii). _____

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SECTION C (40 MARKS)

Answer any two questions

21. (a) Describe five Agricultural support services available to farmers. (10mks)
(b) Discuss the importance of Agroforestry. (5mks)
(c) Discuss disadvantages of herding. (5mks)

22. (a) Discuss the influences of soil structure on crop production. (10mks)
(b) Outline five measures taken to prevent water pollution. (5mks)
(c) Outline cultural pest control (5mks)

23. (a) Discuss factors to consider when selecting implement for primary cultivation. (10mks)
(b) What information is contained in a cash receipt? (5mks)
(c) Outline factors affecting rooting of cuttings. (5mks)

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