NAME_____ADMISSION NUMBER_____CLASS_____

443/1

AGRICULTURE PP1

2 HOURS

MAY , 2014

ALLIANCE HIGH SCHOOL

TRIAL EXAMINATION 2014

AGRICULTURE PAPER ONE

INSTRUCTION TO THE CANDIDATES.

- *Write your name admission number and class in the space provided.*
- *This paper has three sections: A, B and C.*
- *Answer all questions in section A and B and **TWO** questions in section C.*
- *Write your answers in the space provided on the question paper.*

For examiner's use only

SECTION	MAXIMUM	SCORE
A	30	
B	20	
C	40	
	90	

SECTION A (20 MARKS)

SECTION A (30 MKS)

1. State any four disadvantages of monocropping. (
2mks)

2. State four pests of cabbages (2 mks)

3. State two diseases of beans, *Phaseolus vulgaris* (1 mk)

4. Give two reasons why a farmer is encouraged to practice organic farming.(1mk)

5. State two practices carried out on seeds of trees before planting (1mk)

6. State three fungal diseases and one viral disease of maize. (1 ½ mks).

7. State any three breeds of pigs (1½ mks)

8. State two roles of magnesium in crops (1mk)

9. State three advantages of tissue culture (1½ mks)

10. State any four physical methods of pest control (2 mks).

11. State any two diseases of onions (1mk)

12. State any four factors that affect demand (2 mks)

13. State three problems associated with tenancy (1 ½ mks).

14. State three types of micro catchment .(1 ½ mks)

15. State any three nursery management practices(1 ½ mks)

16. State two ways of overcoming the problem of water logging in crop production(1 mk)

17. State two farming activities that may cause pollution(1 mk)

18. Give four reasons of sub soiling (2 mks)

19. State three ways in which ' fanya juu' terrace control soil erosion(1 ½ mks)

20. Give four factors that influence the number of secondary cultivations in seedbed preparation (2marks)

21. State the roles of well rotten organic manure and garden soil when preparing compost manure.

Organic manure(1 mk)

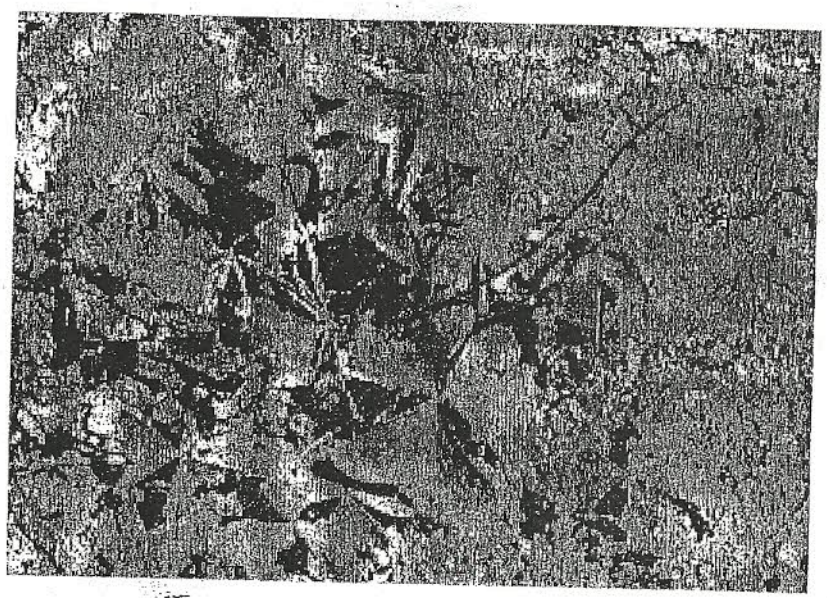
Garden soil(1 mk)

SECTION B (20 MKS)

22. Write the procedure of harvesting cotton(3 mks)

23. State the precautions when harvesting pyrethrum(4 mks)

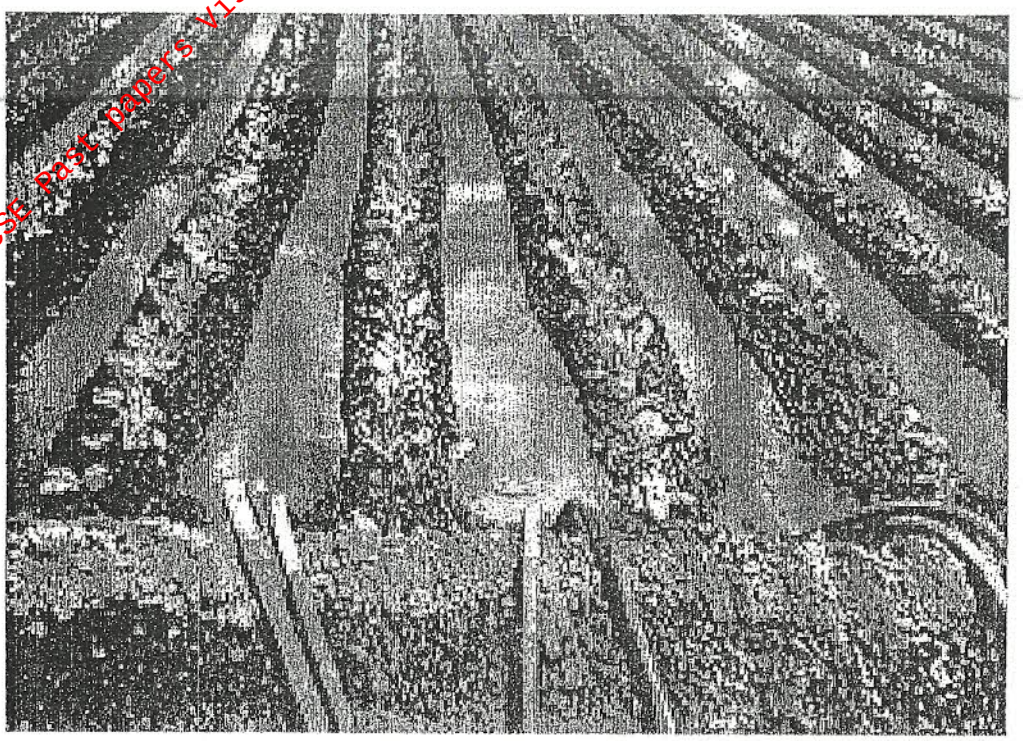
24. The diagram below is of a common weed. Study it and answer.



(i) Identify the weed.(1 mk)

(ii) Why is it difficult to control the weed.(1 mk)

25. Below is a diagram showing a method of irrigation; use it to answer the questions that follow.



i. Identify the method of irrigation illustrated above (1mk)

_____

ii. State two factors that favour this method(2 mk)

_____

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_____

_____

iii. State two maintenance practices carried out on this method of irrigation(2 mk)

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iv. Using letter M, mark on the diagram the area where the crop is grown. (1 MK)

26. A farmer can combine dairy meal and home made feed in ratios.

Dairy meal(kg)	Home made fees(kg)	Marginal rate of substitution
1	48	0
2	39	V
3	32	7
4	27	W
5	23	4
6	21	X
7	20	1
8	19	Y

i. Given the above information, calculate the marginal rate of substitution and give values of V, W, X and Y (4 marks]

ii. Given that the pride of dairy meal is Ksh. 8.00 per kilogram and that of homemade feeds in Ksh. 2.00 per kilogram, calculate the least cost combination

(1mk).

SECTION C (40 MKS)
*Answer only **TWO** questions in this section*

27 (a).The following accounts information is from Mrs. Maweo's farm for the year ended 31 - 12 - 2003.

Opening valuation	Ksh. 6,000/=
Paid wages	Ksh. 5000/=
Bought equipment worth	Ksh. 8,000/=
Bought pig feeds worth	Ksh. 4,000/=
Sold mature pigs worth	Ksh. 7,000/=
Bought drugs worth	Ksh. 3,200/=
Sold maize worth	Ksh. 3,000/=
Closing valuation	Ksh. 4,000/=

(i).Using the information above, prepare a profit and loss account for Mrs. Maweo's farm.(8mks)
(ii).From the calculations in (i) above, state whether Mrs. Maweo made a profit or a loss. (1 mark)
(b). What is opening valuation as used in farm account? (1 mks)
©. Explain the role of agricultural co-operatives in Kenya. (10mks)

28.Describe production of Napier grass , *Pennisetum purpureum* under the following subheadings.
(i) Seed-bed preparation (5 mks)
(ii) Planting (3mks)
(iii)Fertilizer application (2mks)
(iv) Wed control (5mks)
(v) Utilization (3mks)

29.(a). Discuss cultural methods of control of soil erosion(7 mks)
(b). Discuss factors that encourage soil erosion(8 mks)
(c). Discuss five ways in which plant morphology affects selectivity of herbicides(5 mks)