

AGRICULTURE

NAME: _____ INDEX: _____

ADM.NO: _____

ALLIANCE HIGH SCHOOL

TRIAL EXAMS

AGRICULTURE

PAPER 2

443/2

TIME: 2½ HOURS

INSTRUCTIONS

The paper has 3 sections A,B and C.

Answer all questions in section A and B

Answer any two questions in section C in answer sheet provided.

For Official Use Only.

Section	Question	Maximum Score	Score
A	1 - 17	20	
B	18 - 27	20	
C	28 29 30	40	

SECTION A. (30 MARKS)

1. Differentiate between pedology and entomology. (1 mk)

2. State 3 aspects of light that affect agriculture. (1½ mks)

3. State 3 advantages of adding organic matter to sandy soil. (1½ mks)

4. State 4 methods of controlling damping off disease. (2 mks)

5. State any 4 effects of pests with piercing and sucking mouth parts. (2 mks)

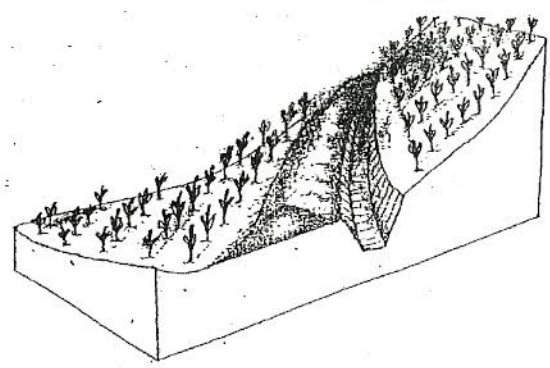
6. Give reasons for
i) pricking out (1 mk)

7. State the form in which the following elements are absorbed by plants.
i) nitrogen (1 mk)

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|------------------------------------------------------------------------------|----------|
| ii) Phosphorous | (1 mk) |
| 8. State non-competitive markets. | (1 mk) |
| 9. Give two possible causes of swellings on the roots of bean plants. | (1 mk) |
| 10. State 3 disadvantages of the intensive farming system. | (1½ mks) |
| 11. State two importance of a household in agricultural production economic. | (1 mk) |
| 12. State two ways of utilizing napiergrass as a forage crop. | (1 mk) |

13. The diagram below is a form structure. Study it.



- i) Identify the structure (½ mk)

ii) State the use of the structure. (½ mk)

14. State two characteristics of phosphatic fertilizers. (1 mk)

15. Differentiate between staking and propping. (1 mk)

16. State 3 sites of planting agroforestry trees. (1½ mks)

17. What is soil fertility (1 mk)

SECTION B (20 MARKS)

18. State 3 basic concepts of economics. (1½ mks)

19. State 4 methods of controlling bean anthracnose disease.

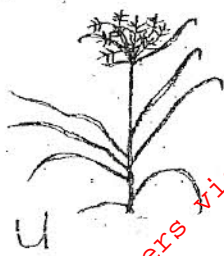
(2 mks)

20. Using the information below, prepare a cash analysis book.

(4 mks)

2/3/06	Opening balance	Ksh 15,000
2/3/06	Purchase of 10kg of potato seeds	Ksh 2,250
26/3/06	Purchase of fertilizer	Ksh. 1,200
12/3/06	Purchase of 200kg of dairy meal	Ksh. 1,500
28/2/06	Sale of 750kg of milk	Ksh. 2,500
14/3/06	Sale of 42 trays of eggs	Ksh. 2,500 2,500
06/3/06	Sale of 2 sacks of potatoes	Ksh. 3,000
05/3/06	Purchase of 400kg of dairy meal	Ksh. 3,000
06/3/06	Purchase of 100kg of fertilizer	Ksh. 1,200
18/6/06	Sale of 1000kg of milk	Ksh. 2,750
31/3/06	Closing balance	Ksh 16,000 16,600

21. Below are types of weeds. Study them and answer the questions that follow.



22. a) Identify the weeds

(1½ mks)

U _____
N _____
O _____

b) State one harmful effect of weed N.

(½ mk)

c) State 3 types of herbicides based on mode of action.

(½ mk)

23. State the role of the following chemicals in water treatment.

(1½ mk)

a) Soda ash _____
b) Alum _____
c) Chlorine _____

24. State four benefits of drainage as land reclamation method.

(2 mks)

25. Differentiate between erodibility and erosivity.

(1 mk)

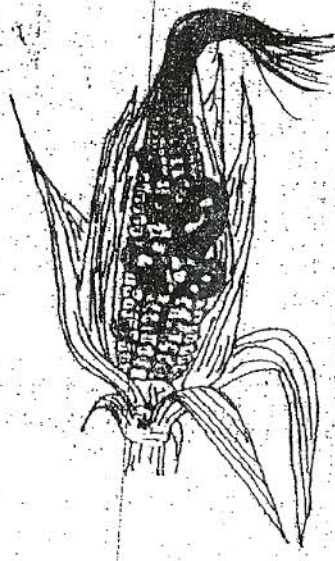
26. a) What are microcatchments?

(1 mk)

b) Give two types of microcatchments?

(1 mk)

27. The diagram below is an example of crop disease. Study it and answer the questions below.



a) Identify the disease

(½ mk)

b) State the causal organism of the disease.

(½ mk)

c) State 3 methods of control of this disease

(1 ½mk)

SECTION C (40 MARKS)

Answer any TWO questions from this section in the answer sheet provided.

28. Discuss production of maize under the following subheadings. (20 mks)

- i) ecological requirement (4 mks)
- ii) Land preparation (4 mks)
- iii) Planting (3 mks)
- iv) Weed control (3 mks)
- v) Pest and disease control (6 mks)

29. a) i) Using the information below, draw a profit and loss account of Mr. Mwenesi at the end of 2011. (7 mks)

bought equipment	Ksh 16,000
sold manure	Ksh. 6,000
sold two steers	Ksh. 30,000
sold cabbages	Ksh, 10,000
bought Bran	Ksh. 5,00
bought drugs	Ksh. 2,000
opening valuation	Ksh. 12,000
sold dairy cows.	Ksh 8,000
sold milk	Ksh. 3,000
bought dairy meal	Ksh. 2,500
paid wages	Ksh 18,000
closing valuation	Ksh 8,000

ii) What percentage of profit or loss did the farm make in the year 2011? (3 mks)

b) Explain functions of agricultural marketing boards. (10 mks)

30. Describe the process of soil formation (20 mks)

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