

NAME:

INDEX NO.

SCHOOL

DATE

SIGN

443/1

AGRICULTURE

PAPER 1

JULY/AUGUST 2013

TIME: 2 HRS.

**LENOCET EVALUATION TEST
KENYA CERTIFICATE OF SECONDARY EDUCATION**

443/1

AGRICULTURE

PAPER 1

TIME: 2 HRS.

INSTRUCTIONS TO CANDIDATES:

- Write your name and index No. in the spaces provided above.
- Sign and write the date of examination as required.
- The paper consists of three sections; **A**, **B** and **C**
- Answer **ALL** questions in Section **A** and **B** and any two questions from Section **C**
- Answers should be written in the spaces provided.

For Examiner's use only

Section	Question	Maximum Score	Candidates Score
A	1 - 20	30	
B	21 - 25	20	
C	26 27 28	40	
Total score		90	

SECTION A (30 Marks)

1. Give **two** reasons why agriculture is important for development of industries. (1 mk)

2. Name **two** agriculture organisations for the youth. (1 mk)

3. List **four** factors that affect the effectiveness of herbicides. (2 mks)

4. State **three** objectives of land distribution. (1½mk)

5. State **four** sources of agricultural credit to farmers. (2 mks)

6. State **two** details found on a title deed. (1 mk)

7. State **two** ways of improving labour productivity in the farm. (1 mk)

8. Give **four** reasons why seeds may fail to germinate after planting. (2 mks)

9. State **four** roles played by drainage as a land reclamation method. (2 mks)

10. State any **four** farming practices which help to improve soil structure. (2 mks)

11. List **two** common sorghum diseases. (1 mk)

12. Mention **three** field management practices carried out during carrot production. (1½ mks)

13. Outline **four** roles of trees in soil and water conservation. (2 mks)

14. Give the meaning of the following terms as used in crop production.

(a) Closed season (1 mk)

(b) Earthing up (1 mk)

15. Give **two** ways of forage utilization. (1 mk)

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16. State **two** characteristics of a good root stock for grafting. (1 mk)

17. Give **three** disadvantages of multiple stem pruning in coffee. (1½mk)

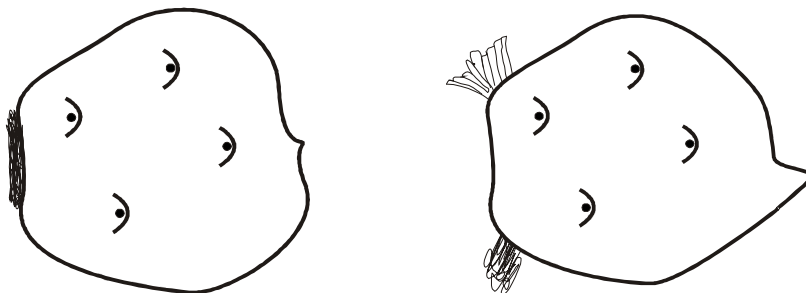
18. State **two** reasons why staking as a field management practice should be carried out in some varieties of tomatoes. (1 mk)

19. State **four** advantages of a good crop rotational programme. (2 mks)

20. State **three** control measures of blossom end rot disease. (1½ mks)

SECTION B: (20 Marks)

21. Study the vegetative materials illustrated below and answer the questions that follows.



(i) Identify the vegetative material illustrated below. (1 mk)

(ii) Name the process involved in the preparation of the above mentioned planting material prior to planting. (1 mk)

(iii) Outline the procedure of preparing the above planting materials. (3 mks)

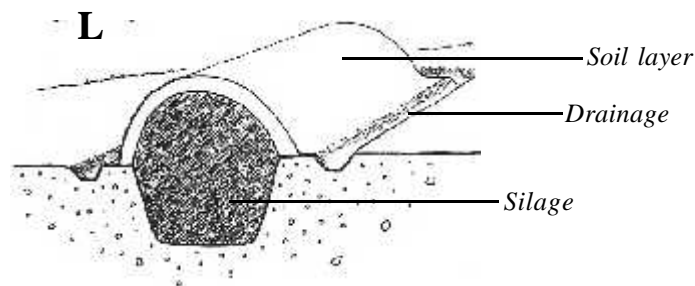
22. 10g of Urea fertilizer was put into a test-tube and 10ml of water was added and shaken gently for one minute.

(a) What observation was made? (1 mk)

(b) Red and blue litmus papers were dipped into the test tube. Record the expected observations after 2 minutes. (1 mk)

(c) Explain how the property of the fertilizer observed into (a) above influences its method of application. (1 mk)

23. Observe the structure labelled L and then answer the questions,

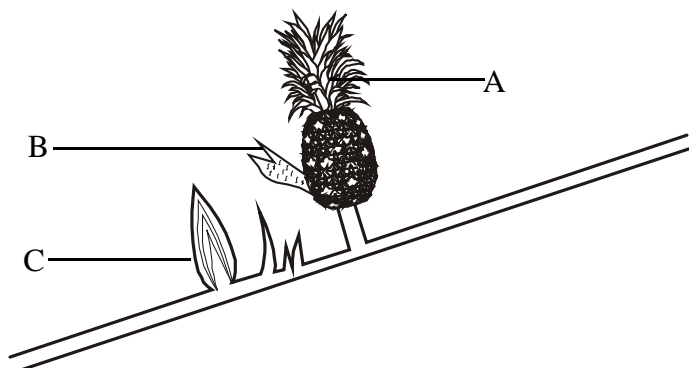


(a) Name the structure labelled L. (1 mk)

(b) State the importance of the drainage channel around the structure L. (1 mk)

(c) Outline **two** reasons for conserving forage. (2 mks)

24. Illustrated below is a part of pineapple plant. (*anana's comosus*)



(a) Identify propagation material labelled A, B and C. (3 mks)

(b) Give a reason why the propagation material labelled C is most preferred. (1 mk)

25. (a) On the same axis, draw and label demand and supply curves of a commodity. On the diagram you have drawn, mark the equilibrium market price. (3 mks)

- (b) What is equilibrium market price of a commodity. (1 mk)

SECTION C: (40 Marks)

26. (a) What is a profit and loss account as used in farm accounting. (1 mk)

- (b) The information below was got from Lulu farm. Use it to prepare a profit and loss account for Lulu farm for the year ended 31st December 2012. (12 mks)

Item	Kshs.
Maize seeds	10,000
D.A.P. fertilizers	25,000
Tractor disc plough	50,000
Diesel fuel	12,000
Milk cans	2,500
Knapsack sprayer	6,500
Veterinary drugs	5,000
Herbicides	18,000
<i>During the year, the following items were sold.</i>	
Maize to N.C.P.B.	210,000
Milk to K.C.C.	500,000
Weaner's	35,000
<i>Other vital information from the records.</i>	
Opening valuation	300,000
Closing valuation	600,000
Debts receivable for tractor hire services	28,000
Interest payable to bank	3,000

- (c) Explain reasons for pruning in crops. (7 mks)

27. (a) Describe production of beans under the following subheadings.

- (i) Ecological requirements. (3 mks)
(ii) Seedbed preparation (3 mks)
(iii) Planting (4 mks)

(b) Explain cultural methods of pest control (10 mks)

28. (i) a) Define soil erosion. (1 mk)

b) State **four** factors that influence soil erosion in an already prepared piece of land on a slope. (4 mks)

c) Outline **four** cultural soil conservation measures. (4 mks)

d) Briefly describe the four types of water erosion. (8 mks)

(ii) Give **three** advantages of earthing up in crop production. (3 mks)

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