

NAME: INDEX NO:

SCHOOL: DATE:

CANDIDATE'S SIGNATURE:

443/1
AGRICULTURE
PAPER 1
JULY / AUGUST 2014
TIME: 2 HOURS

NANDI NORTH SUB-COUNTY JOINT EVALUATION 2014

Kenya Certificate of Secondary Education (K.C.S.E.)
AGRICULTURE
PAPER 1
TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) Write your **Name, School** and **Index number** in the spaces provided above.
- (b) **Sign** and write the **date** of examination in the spaces provided above.
- (c) This paper consists of **THREE** sections **A, B** and **C**.
- (d) Answer **ALL** questions in Section **A** and **B**.
- (e) Answer any **TWO** questions in section **C**.
- (f) Answers should be written in the spaces provided.
- (g) This paper consists of **8** printed pages.
- (h) Candidates should check the question paper to ascertain that all the pages are printed as indicated and no questions are missing.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAX. SCORE	CANDIDATE SCORE
A	1 – 18	30	
B	19 – 22	20	
C	23 - 25	20	
		20	
Total Score		90	

SECTION A (30 MARKS)

Answer ALL Questions in the Spaces Provided

1. State **two** causes of hardpans in crop production. (1mk)

.....
.....

2. Explain **three** factors that determine the time of harvesting. (1½mks)

.....
.....
.....

3. Outline **three** primary macro-nutrients in Agriculture. (1½mks)

.....
.....
.....

4. State **two** general symptoms of viral disease in crops. (1mk)

.....
.....

5. Give the forms in which the following elements are available to plants. (1½mks)

- (i) Hydrogen:.....
- (ii) Carbon:.....
- (iii) Potassium:.....

6. Mention **four** farming system practiced in Kenya. (2mks)

.....
.....
.....
.....

7. Give **three** advantages of tractor hire service. (1½mks)

.....
.....
.....

8. State **four** importance of keeping farm accounts. (2mks)

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.....
.....

9. Differentiate between the following terms as used in crop production. (2mks)

- (i) Pure stand and mixed stand pasture
.....

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.....
(ii) Thinning and pricking out
.....
.....

10. (a) State a reason why it is difficult to control oxalis by the use of herbicides. (½ mk)
.....

(b) Give **three** reasons why tillage is sometimes preferred as a method of weed control. (1½mks)
.....
.....

11. Highlight **three** roles of Agriculture based women's group. (1½mks)
.....
.....

12. State **two** factors considered when siting compost manure. (1mk)
.....
.....

13. A farmer is to apply a compound fertilizer 30-10-5 on ¼ acre garden plot at rate of 150kg per hectare.

(a) Calculate the amount of potassium oxide (K_2O) used in the plot. (1mk)

(b) Explain why are potassic fertilizer not commonly used in Kenya. (1mk)
.....
.....

14. State **three** precautions taken when harvesting cotton. (1½mks)
.....
.....

15. The following is a list of factors associated with agroforestry.

Coppicing, Agrosilvopastoral, Cropping, Lopping, Alley cropping, Agrosilviculture, Mulstistorey cropping.

From the above list, identify:

(a) Agroforestry practices. (1mk)
.....

(b) Forms of Agroforestry. (1mk)

.....
16. (a) Outline **two** ways in which burning positively affects agriculture in land clearing. (1mk)

.....
.....
(a) List **three** other methods of clearing land. (1½ mks)

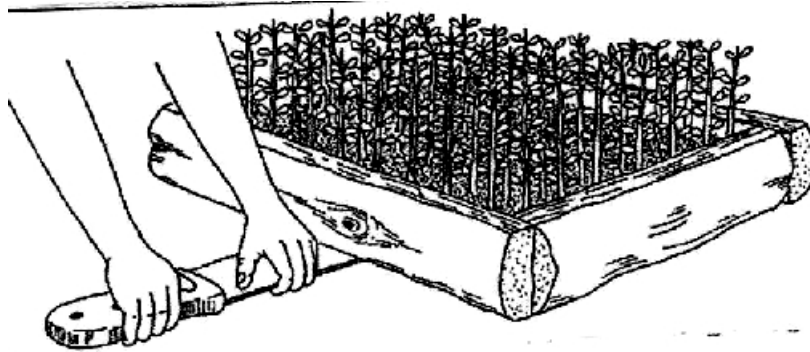
.....
.....
17. State **three** benefits of terracing on a sloppy area. (1½ mks)

.....
.....
18. Mention **three** types of impurities calling for treatment of water on the farm. (1½ mks)

SECTION B (20 MARKS)

Answer all questions in the spaces provided in this section

19. The diagram below shows a practice carried out in the farm in order to obtain a healthy plant growth.

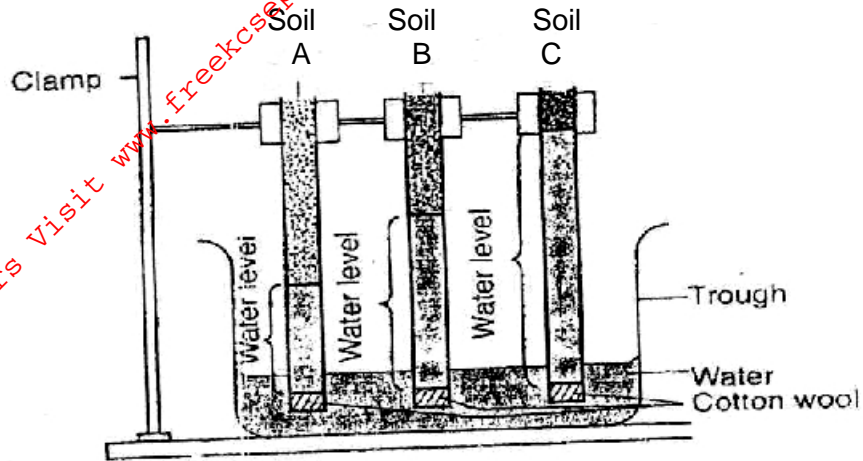


(a) Identify the illustration above. (1mk)

.....
(b) Explain **two** reasons why it is important to carry out the above named practice. (2mks)

.....
(c) State **two** importance of cutting back in pyrethrum. (2mks)

20. Study the diagram below and answer the questions that follow



(a) What is the aim of the experiment? (1mk)

.....

(b) Identify soil A and B giving reasons. (2mks)

Soil A:.....

Reason:.....

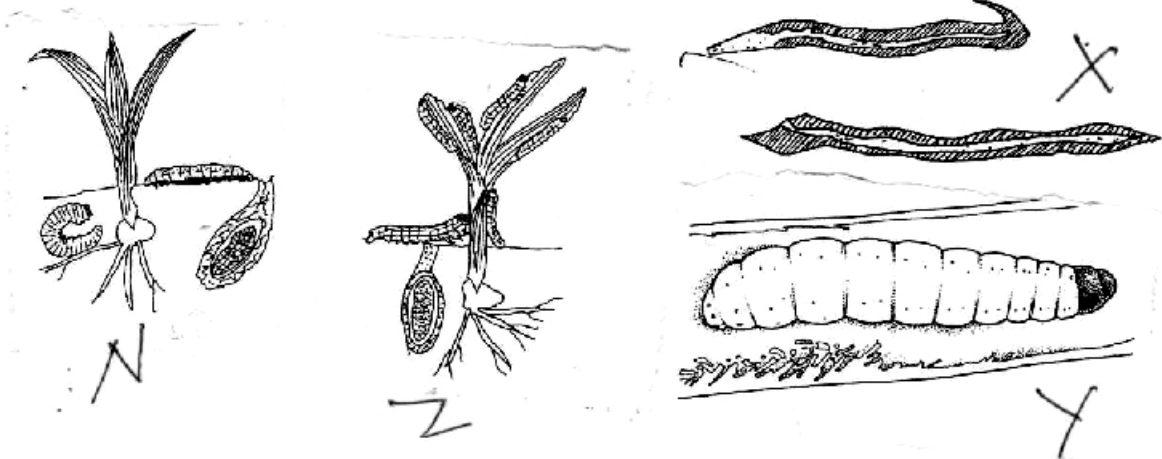
Soil C:.....

Reason:.....

(c) Explain briefly how low pH influences mineral availability. (2mks)

.....

21. The diagram below illustrates some common pests.



(a) Identify the pests labelled N, X, Y and Z. (2mks)

N:

X:

Y:

Z:

(b) Name a crop and the part which the pest X and Y attack. (2mks)

CROP	PART ATTACKED
X:.....
Y:.....

(c) Outline **two** methods of controlling pest X. (2mks)

.....
.....

22. Carefully study the diagrams below then answer the following questions.



(a) Identify the type of cultivars I, J and K. (3mks)

I:
J:
K:

(b) What advantage does cultivar K have over the cultivar I? (½ mk)

.....

(c) Name the major insect pest attacking sorghum in the field. (½ mk)

.....

SECTION C

Answer any two questions in the spaces provided

23. (a) Describe factors that influence supply of a commodity. (10mks)

(b) State and explain **five** factors to be considered in choosing seed rate in crop production. (5mks)

24. (a) Describe field production of Napier grass under the following sub-headings:

(i) Land preparation (3mks)

(ii) Planting (3mks)

(iii) Weed control (2mks)

(iv) Utilization (2mks)

(b) Describe the advantages of using herbicides in weed control. (8mks)

(c) Give **three** methods used to classify herbicides. (2mks)

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