NYAMBARIA HIGH SCHOOL

END OF YEAR EXAMS

Paving Way For Kenya Certificate of Secondary Education Success

Name …….. Admission no…….
Candidate's Signature…… Date…….

FORM 3
AGRICULTURE
PAPER 1
TIME: 2Hours

INSTRUCTIONS TO CANDIDATES:

- *Write your **name** and **index number** in the spaces provided.*
- *Sign and write the date of the examination in the spaces provided above.*
- *This paper consists of three section **A,B** and **C***
- *Answer **all** the questions in section **A** and **B***
- *Answer any **two** questions in section **C.***
- *Answers should be written in the spaces provided in this booklet.*

For Examiner's Use Only:

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-19	30	
B	20-23	20	
C		20	
		20	
	TOTAL	**90**	

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.SECTION A (30 MARKS)

Answer all the questions in this section in the spaces provided.

1. State **two** ways by which agriculture promotes growth of industries. **(1mk)**

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2. Give **two** reasons for carrying out secondary cultivation. **(1mk)**

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3. State **two** reasons for discouraging the use of fire in seedbed preparation. **(1mk)**

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4. State **four** importance of drainage. **(2mks)**

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5. Give **two** reasons why organic manures are not used in carrot production. **(1mk)**

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6. State **four** symptoms of potassium deficiency in crops. **(2mks)**

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7. State **four** advantages of land consolidation. **(2mks)**

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8. Give **four** requirements of a successful settlement scheme. **(2mks)**

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9. List **four** factors that influence the depth of planting. **(2 mks)**

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10. Differentiate between oversowing and undersowing. **(1 mk)**

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11. Name **four** contents of a title deed. **(2mks)**

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12. Name **three** reasons for early cultivation of land. **(2mks)**

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13. Give the use of the following farm records

(a) Muster roll **(1mk)**

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(b) Labour utilization analysis **(1mk)**

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14. List **four** ways of harvesting water in the farm. **(2 mks)**

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15. State **two** roles of additives in silage making. **(1 mk)**

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16. Highlight **four** importance of farm records. **(2 mks)**

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17. State **TWO** disadvantages of tissue culture. **(1 mk)**

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18. Name **four** disadvantages of using seeds as planting material. **(2 mks)**

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19. List **two** proper storage practices used in pest control. **(1 mk)**

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SECTION B (20 MARKS)

Answer all the questions in this section in the spaces provided.

20. (i) A farmer was advised to apply 100 kg/ha of a compound fertilizer 20-15-10. How much potassium Pentoxide will he apply in 0.5ha farm. **(3 mks)**

(ii) What do the numbers 20 and 15 stand for in the fertilizer? **(2mks)**

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(iii) Describe the procedure of preparation of green manure? **(3mks)**

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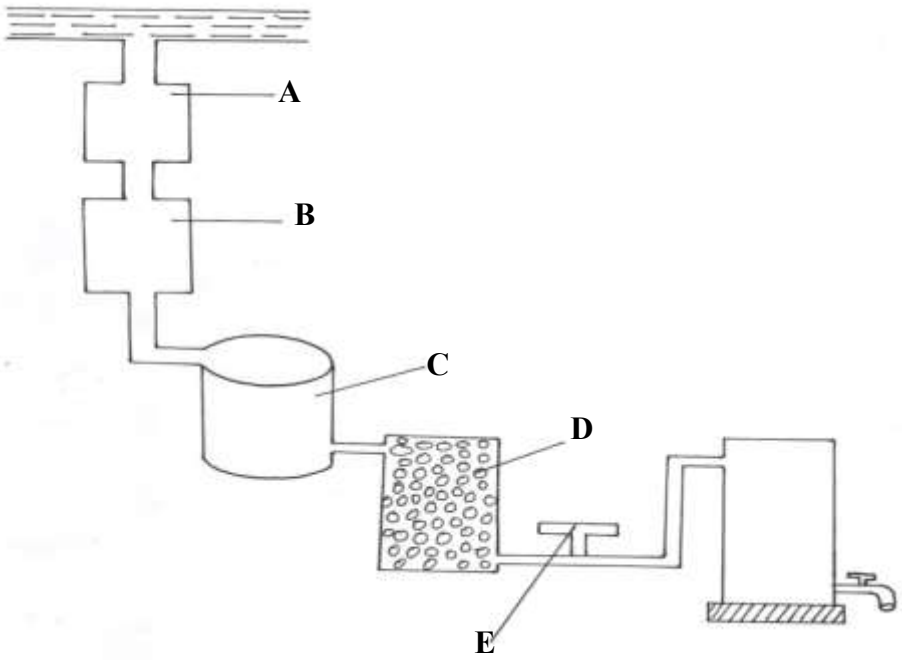
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22. Below is a diagram of a water treatment system.



(a)(i) Identify parts labeled

A…….. **(1mk)**

B……. **(1 mk)**

C……. **(1 mk)**

D……. **(1 mk)**

(ii) Name the chemicals added in part B. **(1mk)**

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(iii) State **one** use of each chemical named in (II) above. **(1mk)**

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(iv) State **one** role of the part labeled E. **(1mk)**

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22. A student carried out an experiment using two soil samples, labeled F and G. The samples were put in different Petri-dishes and some drops of water added to each sample until they were moist. The student rubbed the moist soil samples between the fingers one at a time noting the feel. The results were recorded as shown in the table below.

Soil sample	Description of feel
F	Smooth and sticky
G	Rough and course

(a)From the results, identify the types of soil represented by sample F. **(1 mk)**

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(b)Which of the two soil samples would be best suited for growing rice. Give a reason for your answer. **(2 mks)**

Type of soil: .....

Reason: .....

.....

.....

Identify the likely soil structure of soil F and G

F .....

G .....

SECTION C (40 MARKS)

Answer any two questions from this section in the spaces provided after question 26.

24. (a) Describe the procedure used in soil sampling. **(6mks)**

(b) Describe **five** factors that influence crop rotation. **(10mks)**

(c) State **four** advantages of earthing up in crop production. **(4mks)**

25. (a Describe the procedure of pruning tomatoes **(4mks)**

(b) Describe **six** field management practices carried out in the field when growing maize **(6 mks)**

(c) State four precautions observed when harvesting `pyrethrum **(4mks)**

(d) Explain three reasons for deep cultivation **(6 mks)**

26. State and explain:

(a) **Eight** factors that encourage soil erosion **(8 mks)**

(b) **Seven** nursery practices carried out in a tomato nursery bed. **(7 mks)**

(c) **Five** factors that determines crop growth in an area **(5mks)**

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