

Name..... Adm no.....

School: ..... Signature .....

443/1

Date .....

## AGRICULTURE

2 Hours

### LAIKIPIA EAST TERM 2 2022 FORM 4 EVALUATION EXAM Kenya Certificate of Secondary Education – K.C.S.E

#### AGRICULTURE

Paper 1

2 Hours

#### Instructions to candidates

- a) Write your name and admission 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** section; **A**, **B** and **C**
- d) Answer **all** questions in section **A** and **B** in the spaces provided.
- e) In section **C** answer any **two** question in the spaces provided after question 25
- f) This paper consists of **11** printed pages.
- g) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- h) Candidates should answer all the questions in English

*Examiners use only*

Section	Question	Maximum marks	Candidates score
<b>A</b>	1-17	<b>30</b>	
<b>B</b>	18-21	<b>20</b>	
<b>C</b>		<b>20</b>	
		<b>20</b>	
Total score		<b>90</b>	

### Section A (30 Marks)

*Answer all questions in this section in the spaces provided after each question.*

1. Name **three** categories of livestock farming (1½Mks)

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2. State **three** advantages of carrying out ranching (1½Mks)

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3. Give **four** activities undertaken in organic farming. (2 Mks)

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4. State **three** objectives of land redistribution (1½Mks)

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5. List **four** parameters of measuring national economic development of a country. (2 Mks)

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6. Give **two** roles of soil micro-organisms that are beneficial to crops. (1 Mk)

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7. List **three** aspects of light that influence crop growth. (1½Mks)

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8. Give **three** ways of land acquisition for use (1½Mks)

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9. Give **two** reasons why land preparation should be done early. (1 Mk)

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10. List **four** factors of production. (2 Mks)

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11. List **three** methods of treating water for use on the farm. (1½Mks)

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12. State **four** advantages of drip irrigation (2 Mks)

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13. Give four advantages of seeds in crop establishment (2 Mks)

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14. State **four** characteristics that make a crop suitable for green manuring. (2 Mks)

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15. Name **two** types of production functions in economics (1 Mk)

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16. Give **four** effects of mass wasting (2 Mks)

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17. Distinguish between oversowing and undersowing in forage establishment. (2 Mks)

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18. Give **four** advantages of stall feeding (2 Mks)

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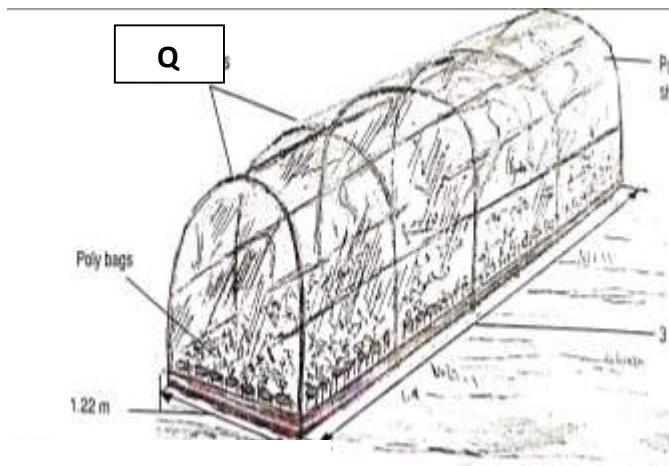
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### Section B (20 Marks)

*Answer all questions in this section in the spaces provided after each question.*

19. The diagram below illustrates a structure that is used in raising up seedlings study it carefully to answer the questions below it.



- a) Identify the structure (1 Mk)

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- b) Name the part labeled Q (1mk)

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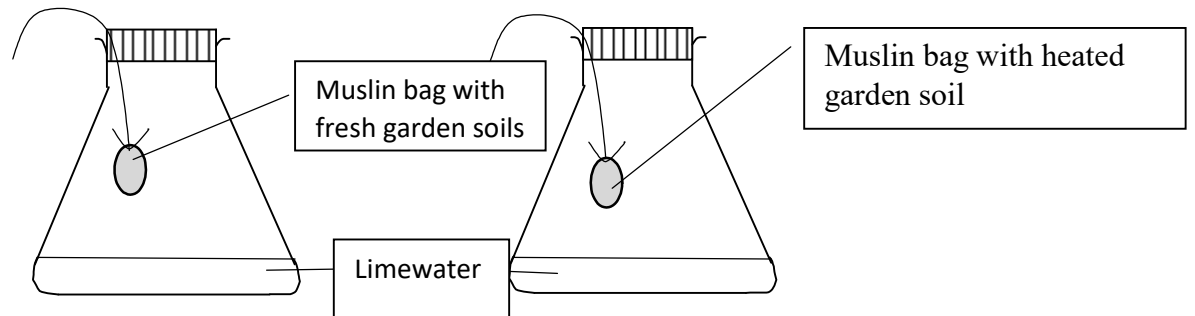
- c) state three management practices carried out on the seedlings in structure above (3mks)

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20. The experimental set up below was done by form 1 students while investigating a certain component of soil. Study it to answer the questions that follow.



a) Name the soil constituent they were investigating. (1 Mk)

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b) Suggest the observations made in set ups **A** and **B**. (2 Mks)

A: \_\_\_\_\_

B: \_\_\_\_\_

c) Give a reason for your observations in A and B above. (2 Mks)

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21. The diagram below shows a tomato plant growing, study to answer the questions below.



a) Identify the practice that has been done to the tomato plant above \_\_\_\_\_ (1mk)

b) Give two reasons for carrying out the practice mentioned in (a) above (2mks)

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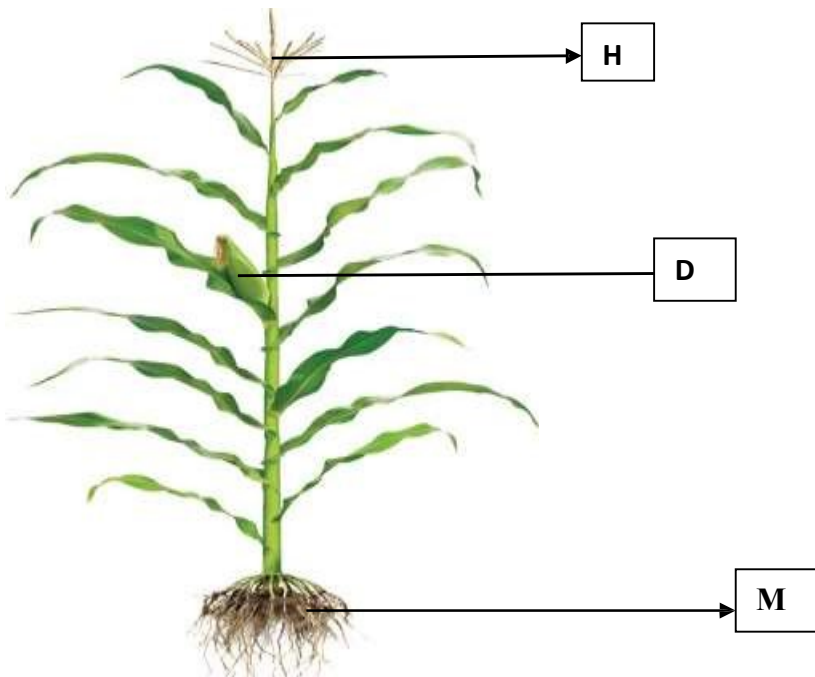
c) Mention two market qualities considered in marketing the above vegetable (2mks)

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The diagram below illustrates a maize plant whose variety is H614 study it to questions that follow.



a) Give the meaning of the variety number  
H \_\_\_\_\_ (1 ½ mks)

6 \_\_\_\_\_

4 \_\_\_\_\_

b) Name one disease that affect the part labeled **H** (1mk)

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c) Name one field practice carried out on the part labeled **M** (1 Mk)

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d) Name three storage pests that can affect the part labeled **D** (1 ½ Mks)

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### Section C (40 Marks)

*Answer only two questions in this section, in the space provided after question 25.*

22. a) State **four** effects of HIV/ AIDS and other illnesses on Agriculture. (4 Mks)

b) State and explain **five** factors considered when designing a crop rotation program. (10Mks).

c) Explain **six** factors that contribute to the competitiveness of weeds. (6 Mks)

23. a) Describe **seven** physical methods of controlling soil erosion. (7 Mks)

b) Give a reason for each of the farm records kept on a dairy farm. (5 Mks)

c) State and explain **four** factors that affect rooting of cuttings (8Mks)

24. a) Describe the harvesting of tea. (5 Mks)

b) Describe **five** factors to consider when formulating a farm plan (10 Mks)

c) Describe **five** methods of fertilizer application. (5 Mks)

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This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface.