

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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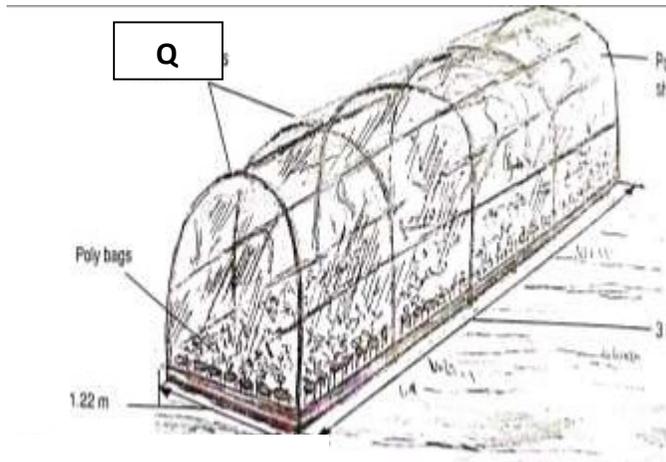
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**Section B (20 Marks)**

*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

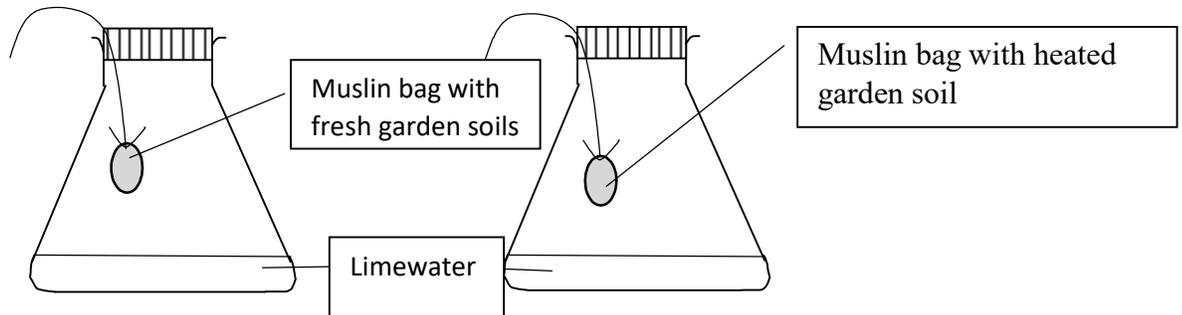
(3mks)

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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 up **A** and **B**. (2 Mks)

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

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

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

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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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\_\_\_\_\_

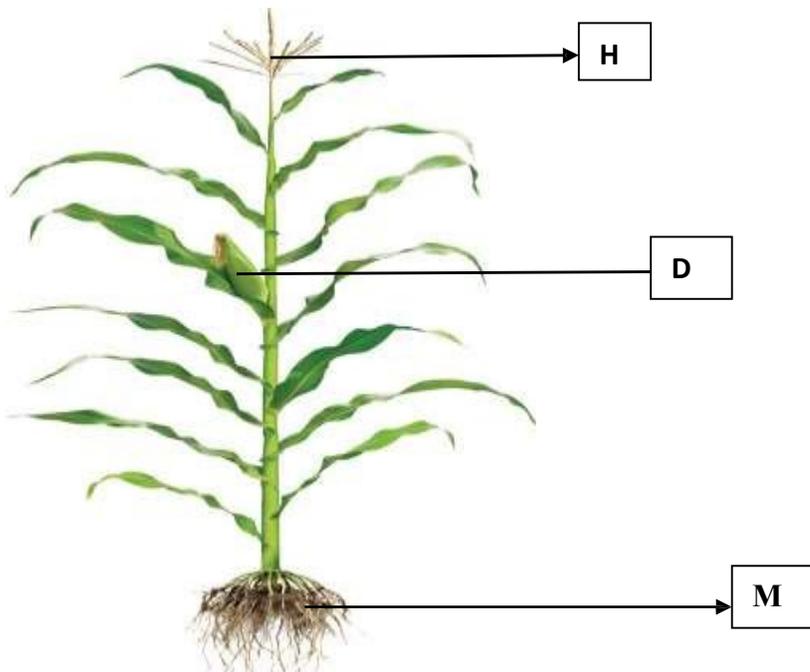
c) Mention two market qualities considered in marketing the above vegetable (2mks)

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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 (1 ½ mks)

H \_\_\_\_\_

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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