

Name: Index no

School: Candidate's sign

Class..... Adm No.....

AGRICULTURE 443/1

KASSU MOCK

SEPTEMBER 2021

TIME: 2 HOURS

FORM FOUR KASSU MOCK
Kenya Certificate of Secondary Education (K.C.S.E.)
Agriculture
Paper 1

INSTRUCTIONS TO CANDIDATES:

- *Write your name and index number in the spaces provided above.*
- *Sign and write the date of examination in the spaces provided above.*
- *This paper consists of three sections A, B and C.*
- *Answer all the questions in section A and B.*
- *Answer any two questions in section C.*
- *All answers should be written in the spaces provided.*
- *This paper consists of 13 printed pages.*
- *Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*
- *Candidates should answer all the questions in English.*

For Examiner's Use Only:

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-17	30	
B	18-21	20	
C		20	
		20	
	TOTAL SCORE	90	

SECTION A (30 MARKS)

1. State **two** types of labour records. (1mk)

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2. List **four** climatic factors that influences crop production. (2mks)

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3. Name **three** types of pipes used to convey water in the farm. (1½mks)

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4. Give **five** causes of land fragmentation in Kenya. (2½mks)

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5. State **four** important objectives of land tenure reforms. (2mks)

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6. State **four** reasons why burning of vegetation when clearing land should be discouraged. (2mks)

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7. Outline **four** importance of good soil profile in crop production. (2mks)

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8. Give **three** ways of achieving minimum tillage. (1½mks)

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9. Differentiate between the following terms;

- a. Over sowing and under sowing. (1mk)

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- b. Hardening off and pricking out. (1mk)

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10. List **four** environmental factors that influences the effectiveness of herbicide. (2mks)

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11. State **three** importance of mulching in crop production. (1½mk)

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12. State **two** disadvantages of basin irrigation. (1mk)

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13. Give **four** effects of soil erosion. (2mks)

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14. Give **four** reasons for pasture conservation. (2mks)

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15. State **four** characteristics of a fertile soil. (2mks)

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16. State **four** roles of calcium in crop production. (2mks)

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17. Give **two** reasons why polythene sheet is used in vegetative propagation nursery unit. (1mk)

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SECTION B 20MKS

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

18. A student was to apply a compound fertilizer 5:20:10 at the rate of 200kg per hectare on her Agriculture project plot measuring 3m by 4m.

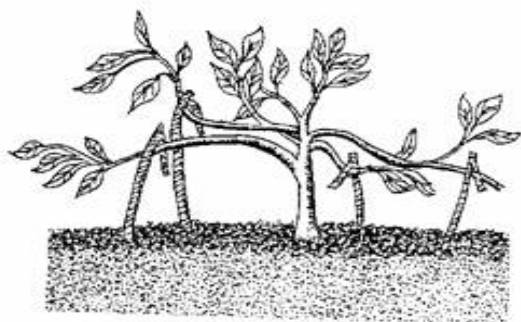
a. What do the figures 5 and 10 in the compound fertilizer stand for? (2mk)

5.....
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10.....
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b. Calculate the amount of fertilizer she would require for the plot. (3mks)

19. Study the diagram below and answer the following questions.



- a. Identify the practice above. (1mk)

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- b. State **two** reasons for carrying out the practice above. (2mks)

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- c. State **two** disadvantages with the practice above. (2mks)

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20. The following is an illustration of an infected Irish potato plant. Study it carefully and answer the questions below.



- a. Identify the disease which may have caused the condition shown in the Illustration. (1mk)

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- b. Name any other crop which may be affected by the disease identified illustrated above. (1/2mk)

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- c. Mention **three** other factors which can lead to the same condition as shown by the illustration. (1 1/2mks)

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d. State **two** measures that can be used to control the disease illustrated above.

(2mks)

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21. The diagram below shows a common weed. Study it carefully and answer the questions the follows.



a. Identify the weed.

(1mk)

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b. Give **one** reason why the weed illustrated above is referred to as parasitic weed.

(1mk)

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c. Name **two** crops that the weed illustrated above commonly attack.

(2mks)

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d. State **one** cultural method of controlling the weed above.

(1mk)

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SECTION C 40MKS

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

22. a) Describe the production of carrots under the following subheadings.
- i. Land preparation. (3mks)
 - ii. Planting. (3mks)
 - iii. Field management practices. (4mks)
- b) State and explain the factors that determine the stage and time of harvesting crops. (5mks)
- c) State **five** effects of HIV/AIDS on Kenya's agricultural production. (5mks)
23. a) Outline **7** importance of pruning in coffee production. (7mks)
- b) Explain the precautions that should be observed during the harvesting of pyrethrum. (3mks)
- c) Give **ten** uses of farm records in the farm. (10mks)
24. a) State and explain **five** factors that determine seed rate. (10mks)

b) Describe the procedure of transplanting a vegetable seedling.

(7mks)

c) Give **three** reasons for processing agricultural produce.

(3mks)

[illegible]

[illegible]

[illegible]

[illegible]