

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	
	<b>TOTAL SCORE</b>	<b>90</b>	

**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. (1<sup>1</sup>/<sub>2</sub>mks)

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4. Give **five** causes of land fragmentation in Kenya. (2<sup>1</sup>/<sub>2</sub>mks)

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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. (1<sup>1</sup>/<sub>2</sub>mks)

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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. (1<sup>1</sup>/<sub>2</sub>mk)

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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)

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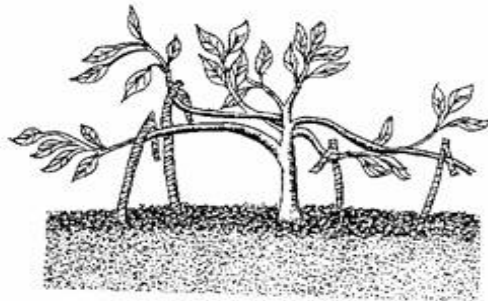
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10.....

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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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