

Name:Index No:class:

443/1
AGRICULTURE
PAPER 1
MOKASA II EXAMINATION – 2023
2 HOURS

**K.C.S.E EXAMINATION
MOKASA EXAMINATION – 2023
AGRICULTURE
PAPER 1
2 HOURS**

Instructions to candidates

1. Write your name and index number in the spaces provided above.
2. This paper consists of three sections: A, B and C
3. Answer all questions in sections A and B and any other question from section C.
4. Do Not plug any pages from the question paper.
5. Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are printed as indicated and that no questions are missing.
Number of printed pages are 12

FOR EXAMINER'S USE ONLY

| SECTION | QUESTIONS | MAXIMUM SCORE | CANDIDATE SCORE |
|---------|--------------|---------------|-----------------|
| A | 1- 19 | 30 | |
| B | 20 – 23 | 20 | |
| C | 24 – 27 | 40 | |
| | TOTAL | 90 | |

SECTION A

Answer all questions in this section in the space provided.

1. Give **four** reasons why organic manures is not commonly used by famers. (2mks)

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2. List **four** advantages of cultivation as a means of weed control. (2mks)

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3. Outline **four** ways in which grass cover help in soil and water conservation. (2mks)

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4. List **five** ways in which a farmer can adjust to risks and uncertainly. (2mks)

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5. List **three** categories of credit (1½mk)

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6. State **three** functions of Agricultural Finance Corporation. (1½mk)

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7. Distinguish between perfect and imperfect market. (1mk)

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8. Explain the importance of carrying out of the following post-harvest practices.

a) Packaging

(1 $\frac{1}{2}$ mks)

b) Storage

($\frac{1}{2}$ mks)

c) Processing

($\frac{1}{2}$ mks)

9. Outline three disadvantages of tissue culture.

(1 $\frac{1}{2}$ mks)

10. Outline four benefits of broadcasting as a planting method

(2mks)

11. Give four reasons why use of certified seeds is recommended.

(2mks)

12. State two methods of determining soil pH

(1mk)

13. Distinguish between over sowing and under sowing.

(1mk)

14. Give four importance of planting trees along the boundaries.

(2mks)

15. State four advantages of organic farming. (2mks)

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16. State four properties of phosphatic fertilizers (2mks)

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17. State four disadvantages of weeds in crop production (2mks)

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18. Name two fungal diseases of Maize. (1mk)

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SECTION B (20 MARKS)

Answer all questions in the spaces provided.

19. The inventory of Mr. Oundo's farm as at 31st December, 2022 was as follows

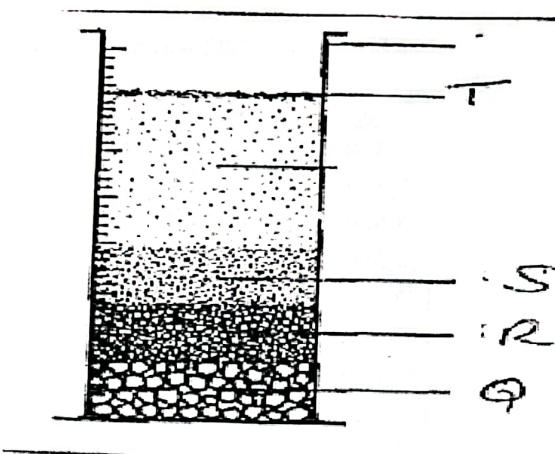
| <u>Particulars</u> | <u>Ksh.</u> |
|--------------------|-------------|
| Cash in hand | 8,500 |
| Goats | 17,200 |
| Layers | 13,000 |
| Pigs | 24,000 |
| Machinery | 172,000 |
| Vehicles | 155,000 |
| Perennial crops | 120,000 |
| Buildings | 163,000 |
| Land | 250,000 |

On the same day, the following information was obtained from his books of account.

| | |
|-------------------------|---------------|
| Debts payable | 32,000 |
| Bank overdraft | 64,000 |
| Rent | 7,500 |
| Tax payable | 9,500 |
| Debts receivable | 80,000 |

Using the above information, prepare a balance sheet for Mr. Oundo's farm for the year ended 31st June, 2022. (5mks)

20. The diagrams below illustrate an experiment on soil using the following apparatus list below. Study it carefully and answer the questions that follow.



a) State the aim of the experiment (1mk)

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b) Name the sediments labelled Q,R,S and T on the illustrated above. (2mks)

Q.....

R.....

S.....

T.....

c) Give the purpose of sodium carbonate in the experiment above. (1mk)

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d) A part from the experiment illustrated above, name one other method used to illustrate show experiment on the soil. (1mk)

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21. The diagram below illustrate a final seedbed after a tertiary operators done during land preparation.
Study it carefully and answer the question that follow



a) Name the tertiary operators carried out on the seedbed. (1mk)

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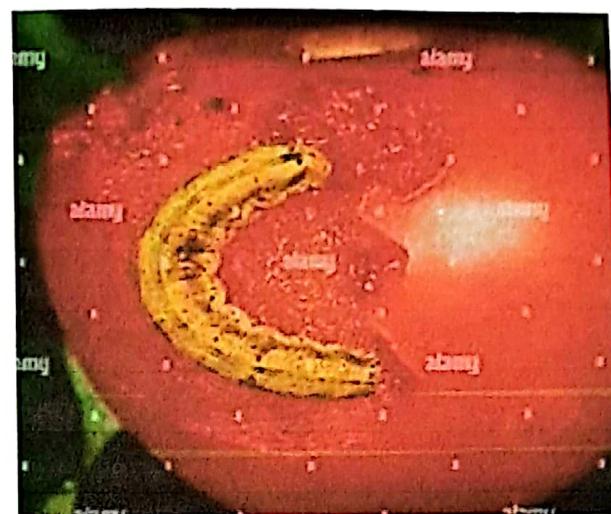
b) Give three reasons for carrying out the tertiary practice illustrated above. (3mks)

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c) Name one tractor drawn implement used to prepare above tertiary operations (1mk)

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22. The diagram below shows a tomato fruit attacked by a certain pest. Study it and answer the questions that follow.



a) Identify the pest illustrated above. (1mk)

b) Give the classification of the pest above basing on its mouth part. (1mk)

c) Give two control methods of the pest illustrated above. (2mks)

d) Name the other crop affected by the pest illustrated above. (1mk)

SECTION C (40 MARKS)

23. Describe the production of bulb onions under the following sub heading:

I. Field management practices

(4mks)

ii. Harvesting

(2mks)

a) Describe the procedures of harvesting pyrethrum.

(4mks)

b) State five problems experience by farmers in marketing agricultural produce. (5mks)

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c) Explain five factors influencing soil formation (5mks)

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24. (a) Outline five advantages of mixed grass-legume pasture. (5mks)

(b) State five pieces of information contained in a land title deed. (5mks)

(c) State and explain five physical control measures of crop pests. (10mks)

25. (a) State and explain four factors influencing crop rotation.

(8mks)

(b) Outline the procedures of transplanting tree seedlings.

(6mks)

(c) State six importance of drainage as a land reclamation method.

(6mks)

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