

Name: Index no

School: Candidate's sign

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

AGRICULTURE 443/1

JULY 2021

TIME: 2 HOURS

MOI HIGH SCHOOL-KABARAK

MOKASA I EXAMINATION

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** conditions under which opportunity cost is zero. (1mk)

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2. Name **three** branches of horticulture.

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

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3. State **four** factors a farmer should consider when choosing the farming system to undertake.

(2mks)

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4. State **four** disadvantages of communal land tenure system.

(2mks)

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5. Give **four** pieces of information found on a land title deed.

(2mks)

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6. State **four** reasons for deep ploughing during land preparation.

(2mks)

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7. State **four** characteristics of a good top soil. (2mks)

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8. Give **three** reasons for sub soiling.

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

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9. Differentiate between seed inoculation and seed dressing. (1mk)

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10. State **four** effects of soil erosion. (2mks)

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11. Outline **four** practices necessary to improve and maintain permanent pastures. (2mks)

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12. State **two** causes of poor drainage on farmland. (1mk)

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13. State **four** reasons for mulching. (2mks)

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14. Give the function of each of the following in the preparation of compost manure. (2mks)

a) Top soil

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b) Well rotten manure

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c) A thin layer of wood ash

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d) Long pointed stick

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15. State **four** deficiency symptoms of phosphorus. (2mks)

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16. State **four** characteristics of nitrogenous fertilizers. (2mks)

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17. State **four** reasons why a nursery is important in crop production. (2mks)

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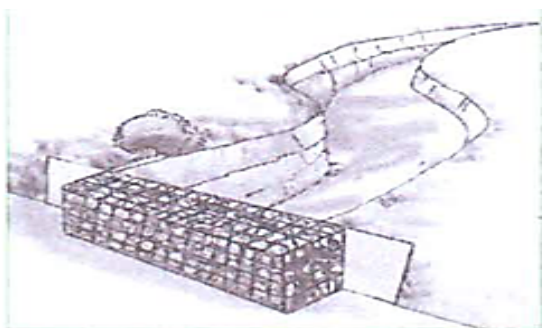
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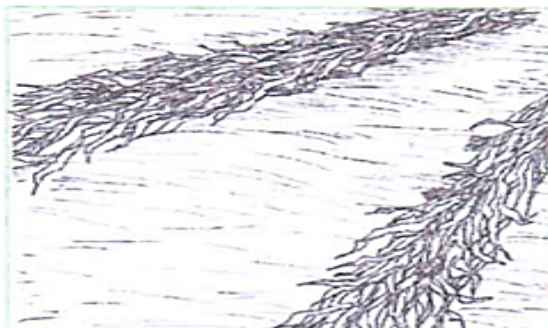
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SECTION B (20 MARKS)

18. The illustrations labelled A and B show some farm structures used in soil and water conservation. Study them carefully and answer the questions that follow.



A



B

a) Identify structures A and B. (1mk)

A.....

B.....

b) Name the type of soil erosion controlled by structures A and B. (2mks)

A.....

B.....

c) State **two** ways in which the structures help to control soil erosion. (2mks)

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19. The diagrams below illustrate irish potato seed preparation before planting. Study it carefully and answer the questions that follow.



- a) Name the practice used in preparing the seed potato above before planting. (1mk)

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- b) Describe the procedure followed in preparing the seed potatoes for planting. (3mks)

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- c) Give **one** reason for carrying out the practice named above. (1mk)

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20. The photograph below shows an irish potato plant attacked by a disease. Study it and answer the questions that follow.



- a) Identify the disease represented by the photograph. (1mk)

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- b) Name the causative agent of the diseases. (1mk)

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- c) Give **one** other crop that can be attacked by the same disease. (1mk)

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- d) List **two** control measures of the disease. (2mks)

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21. The photographs below show common weeds C and D in pasture land. Study them carefully and answer the questions that follow.



C



D

- a) Identify weeds C and D. (2mks)

C.....

D.....

- b) Classify weed D according to plant morphology. (1mk)

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- c) State the major problem posed by each of the weeds above in pasture land. (2mks)

C.....

D.....

SECTION C (40MARKS)

22. a) State **four** benefits of sowing annual crops early. (4mks)
- b) Describe **eight** effects of fragmentation and sub division of land. (8mks)
- c) Explain **eight** effects of weeds. (8mks)
23. a) Describe the various field management practices for tomatoes. (8mks)
- b) State the precautions that should be observed when harvesting cotton. (4mks)
- c) Explain **four** importance of crop rotation. (8mks)
24. a) Explain **four** factors to consider in choosing the type of irrigation to use in the farm. (8mks)
- b) Explain **five** farming practices that destroy soil structure. (5mks)
- c) Describe **seven** reasons why farmers need to keep good farm records. (7mks)

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