

Name Index No.

Candidate's Sign

Date:

443/1
AGRICULTURE
Paper 1
MARCH/APRIL 2013
Time: 2 Hours

MOKASA JOINT EVALUATION EXAMINATION
Kenya Certificate of Secondary Education
443/1
AGRICULTURE
Paper 1
March/April 2013
2 Hours

Instructions to Candidates

- Write your name and index number in the spaces provide above
- Sign and write the date of examination in the spaces provided above
- This paper consist of three sections A, B and C
- Answer **ALL** the questions in section A and B and any **two** questions in section C
- **ALL** answers must be written in the spaces provided in this booklet
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For Examiner's Use Only

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 18		
B	19 – 22	20	
C		20	
		20	
TOTAL SCORE		90	

SECTION A (30 MARKS)

Answer ALL the questions in this section in the spaces provided

1. Give **two** characteristics of small scale farming (1 mark)

2. Name **two** chemical processes of weathering (1 mark)

3. State **two** advantages of mixed farming (1 mark)

4. Give **two** chemical properties used to classify soil (1 mark)

5. State **two** ways in which grass strips discourage soil erosion (1 mark)

6. Give **two** types of inventory records (1 mark)

7. Outline **four** advantages of individual owner operator tenure system (2 marks)

8. List **six** factors that should be considered when grading a crop produce (3 marks)

9. State **four** importance of raising cabbage seedlings in a nursery bed (2 marks)

10. Give **four** reasons for top dressing pasture (2 marks)

11. State **three** methods of controlling weeds in grass pasture field (1½ mks)

12. Give **four** reasons for staking tomatoes (2 marks)

13. State **three** properties the farmer carries out on store before storing grains (1½ mks)

14. Give **four** desirable characteristics of a certified seeds (2 marks)

15. a) Outline **two** characteristics of phosphatic fertilizers (1 mark)

b) Give two forms in which the following elements are available to plants
(i) Phosphorous (½ mark)

(ii) Potassium

(½ mark)

16. Give **four** factors that influence the choice of tools and equipment used in primary cultivation (2 marks)

17. List **four** general symptoms of viral diseases in crops (2 marks)

18. State **four** factors that contribute to competitive ability of weeds (2 marks)

SECTION B: (20 MARKS)

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

19. a) Diagram below shows an adult crop pest which, in its larval stage, causes the middle shoots of sorghum seedlings to wither, as shown in the diagram.

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(i) Identify the pest (½ mark)

(ii) Give **two** ways of controlling the pest (2 marks)

b) Diagrams B, C and D below shows the panicles of three sorghum varieties growing side by side.

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(i) Which one of the three varieties of sorghum is least likely to be damaged by the birds? (½ mark)

(ii) Give a reason for your answer in (i) above (1 mark)

(iii) State **two** methods that are used in controlling birds in a field of sorghum (2 marks)

20. The diagram below shows a method of bringing tea into bearing. Use it to answer the questions that follow.

a) Identify the specific method shown in the diagram (½ mark)

b) Describe the procedure of carrying out the above in a tea bush (4 marks)

21. Use the diagrams below to answer the questions that follow

a) Identify each of the soil structures labeled E and F

E----- (½ mark)

F----- (½ mark)

b) Give **one** place where the soil structure labeled F can be found (1 mark)

c) State **three** ways in which a farmer can improve the structure of waterlogged clay soil (3 marks)

22. The diagram below shows one method of propagation. Study them carefully and answer the questions that follow.

a) Identify the method of crop propagation illustrated above (½ mark)

b) Describe the activities illustrated by (i) and (ii) (2 marks)

(i)-----

(ii)-----

c) State **one** reason for carrying out the procedure (iii) (1 mark)

d) Name **one** crop that can be propagated by above method (1 mark)

SECTION C: (40 MARKS)

Answer any TWO questions in this section in the spaces provided after.

23. a) Explain **five** causes of land fragmentation in Kenya since independence (5 marks)

b) Describe the advantages of land consolidation and registration (8 marks)

c) Explain the objectives of land reform undertaken in Kenya (7 marks)

24. a) Give **six** precautions observed in pruning mature tea (6 marks)

b) Describe the procedure followed when collecting a soil sample from the field for testing in the laboratory. (6 marks)

c) Give **four** desirable characteristics of materials used in the preparation of compost manure. (4 marks)

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