
KATULANI SUB-COUNTY KCSE REVISION MOCK EXAMS 2015

AGRICULTURE PAPER 1

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NAME _____ INDEX NO. _____
SCHOOL _____ SIGNATURE _____
DATE _____

443/1
AGRICULTURE
PAPER 1
JULY/AUGUST, 2015
TIME: 2 HOURS

KATULANI SUB-COUNTY FORM FOUR JOINT EXAMINATION, 2015
Kenya Certificate of Secondary Education (K.C.S.E)

443/1
AGRICULTURE
PAPER 1
TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

- Write your name, school and index number in the spaces provided above.
- Sign and write the date of the 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** and **any two** questions from section **C**.
- All answers must be written in the spaces provided in this booklet.
- This paper consists of **12** printed pages.
- Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing

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Section	Questions	Maximum score	Candidate's score
A	1 – 21	30	
B	22– 25	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** reasons why farmers are encouraged to practice organic farming. (1 mark)

2. State **three** advantages of shifting cultivation. (1½ marks)

3. List **four** methods of farming. (2 marks)

4. Outline **three** effects of soil organisms which benefit crop growth. (1½ marks)

5. State **two** harmful effects of strong wind on crop production. (1 mark)

6. State **three** advantages of adding organic matter to sandy soil. (1½ marks)

7. State **three** ways by which biological agents can enhance the process of soil formation. (1½ marks)

8. Give **three** reasons for early seed bed preparation. (1½ marks)

9. Outline **four** main reasons for secondary tillage. (2 marks)

10. Name **four** types of water pumps which can be used on a farm. (2 marks)

11. State **two** features that should be considered when choosing water pipes for use on the farm. (1 mark)

12. How does leaching lead to loss of fertility? (½ mark)

13. Give **four** ways by which soil loses its fertility. (2 marks)

14. Give **two** reasons for imposing quarantine on imported planting materials. (1 mark)

15. State **two** advantages of earthing up in crop production. (1 mark)

16. Give a reason for carrying out each of the following practices in a tomato nursery. (2 marks)

i) Pricking out

ii) Hardening off

17. Give **two** reasons for drying grains before storage. (1 mark)

18. State **two** ways in which crop rotation controls weeds. (1 mark)

19. State **two** conditions under which the opportunity cost is zero in farming enterprise. (1 mark)

20. State **four** ways of harvesting water on the farm. (2 marks)

21. Name **two** classes of weeds on the basis of each of the following: (2 marks)

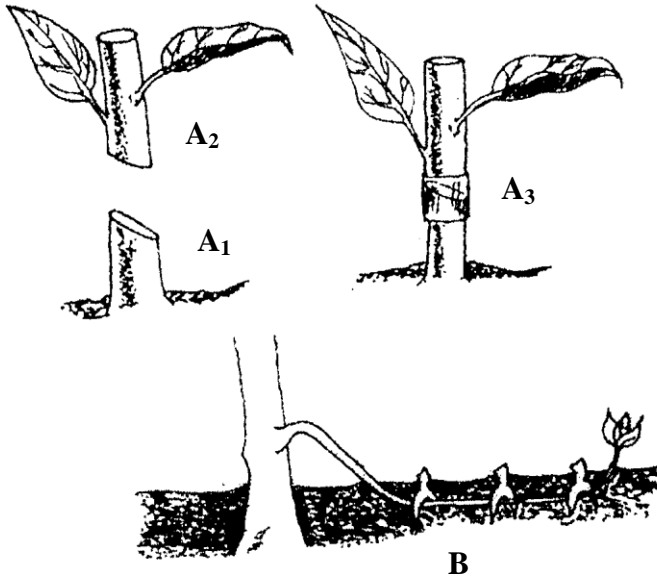
a) Growth cycle

b) Plant morphology

SECTION B (20 MARKS)

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

22. The diagrams labelled A₁, A₂, A₃ and B below illustrates materials and methods of vegetative propagation. Study them and answer the questions that follow.



a) Name the parts labelled A₁, and A₂. (2 marks)

A₁ _____

A₂ _____

b) Name the methods of propagation illustrated in diagrams A₃ and B. (2 marks)

A₃ _____

B _____

c) Name **two** methods of budding that are used in propagation of plant (2 marks)

23. The diagram below illustrates a field management practice in tomatoes.

Study it carefully and answer the questions that follow.

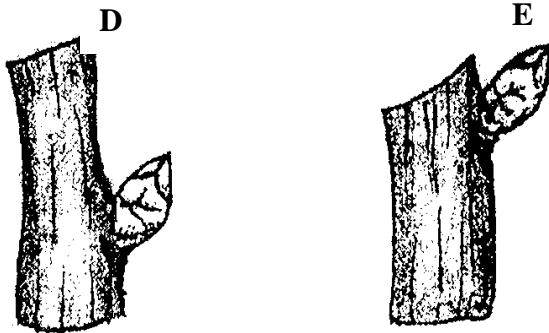


i) Identify the field practice. (1 mark)

ii) State **three** reasons for carrying out the practice. (3 marks)

24. a) The diagrams below represent two ways in which a crop was pruned.

Study them carefully and answer the questions that follow.



i) Which diagram represents the correct way of pruning? (1 mark)

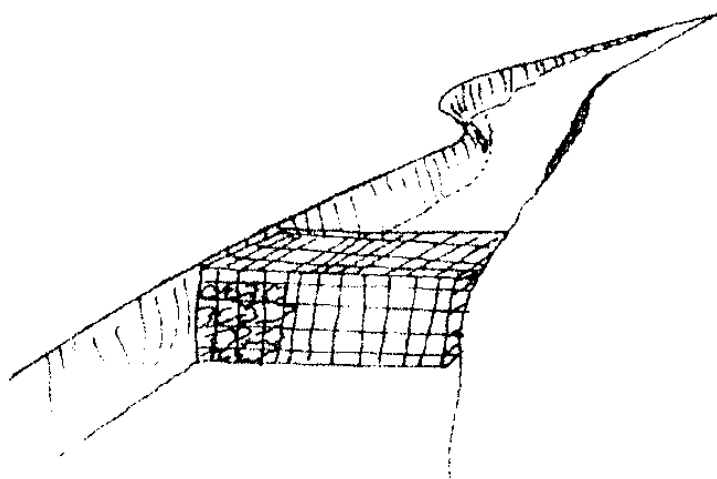
ii) Give a reason for your answer in (i) above. (1 mark)

b) State **two** ways in which pruning assists in controlling crop diseases. (2 marks)

c) Outline **three** reasons for pruning coffee (3 marks)

25. The illustration below shows a structure used for controlling soil erosion.

Study it carefully and answer the questions that follow.



a) Identify the structure. (1 mark)

b) Explain **two** ways in which the structure helps to control soil erosion.

(2 marks)

SECTION C (40 MARKS)

Answer ANY TWO questions from this section in the spaces provided.

26. a) Explain why settlement schemes were established in Kenya soon after independence. (10 marks)
- b) State and explain the various land tenure systems practiced in Kenya. (10 marks)
27. a) Explain the various ways by which a farmer can adjust to risks and uncertainties. (8 marks)
- b) The inventory of Kembo farm as at 31st Dec, 2013 was as follows:

Cash at hand	7,000
Layers	25,000
Dairy cattle	130,000
Cassava in store	5,000
Calves	19,000
Buildings	80,000
Land	180,000
Machinery	85,000

On the same day, the following information was obtained from the farmers' records.

Bank loan	210,000
Egg sale on credit	10,000
Vegetable sales on credit	5,000
Farm input purchased on credit	20,000
Wages payable	6,200
Interest payable	2500
Taxes payable	800
Milk sales on credit	15,000

Prepare a balance sheet (12 marks)

28. a) Explain **seven** cultural methods of controlling crop diseases. (7 marks)

