

MANGU HIGH SCHOOL

AME:	
	CLASS:
DM.NO.	CLASO:

43/1 GRICULTURE APER1 **10CK EXAM** ULY 2016 TME: 2 HOURS

or call 0720502479 Kenya Certificate of Secondary Education Mock Exam Agriculture Paper 1

INSTRUCTIONS TO CANDIDATES

- This question paper consists of THREE sections; A, B and C (i)
- Answer ALL questions in section A and B and ANY TWO questions in section C. (ii)
- ALL questions should be answered in the spaces provided. (iii)

For Examiner's Use Only

Section	Question	Maximum	Candidates Score
A	1-21	apers	
В	22 -25	Set	
C	26 - 280		
	TOTAL	orthigadeda daith	and the second of the

This paper consists of 12 printed pages. Check the question paper to ensure that all pages are printed and no question is missing.

Turn over

Section A: (30 Marks)

Answer all questions in the paces provided

- 1. Why is it not recommended to apply nitrogenous at the time of planting? (1mk)
- 2. Give four reasons for recommending planting of certified seeds

(2mks)

3. Give a reason for preparing a nursery bed of one metre width

(1/2 mk)

4. State two effects of water shortage in crop growth

(1mk)

5. Give four factors to consider when siting a nursery bed

(2mks)

6. State four reasons why government may control the price of commodities (2mks)

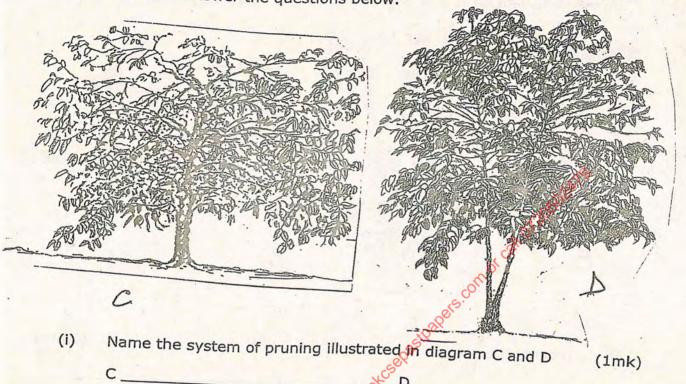
7. State any two symptoms of potassium deficiency in crops

(1mk)

- 8. State **three** properties of soil that are influenced by its texture (1½ mks)
- 9. State three benefits of top dressing when managing grass pastures (11/2 mks)
- 10. State two methods of breaking dormancy in certain seeds before planting (1mk)
- 11. State four sources of nitrogen in the soil for plants (2mks)
 - 12. State three characteristics of shifting cultivation as a system of farming (1½ mks)
 - 13. State **two** important contributions of horticultural crops to the economy of Kenya (1mk)
 - 14. Outline four effects of adding organic matter to a sandy soil (2mks)

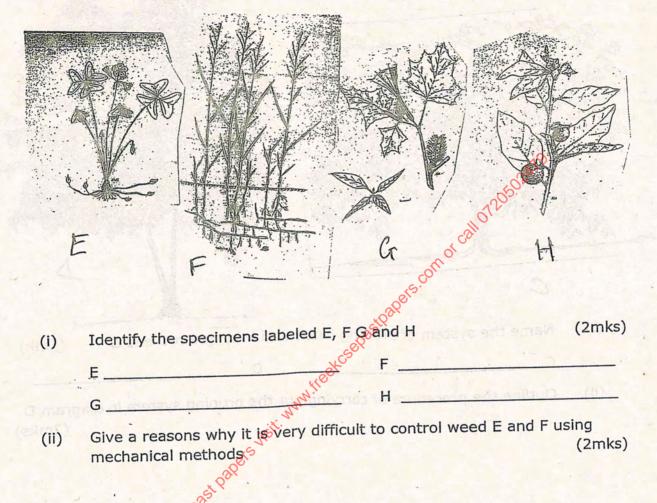
Section B: (40marks)

22. The diagrams labeled C and D below are illustrations of coffee plants which have been established using two different formative pruning systems. Examine the diagrams and answer the questions below.



- (ii) Outline the procedure of carrying out the pruning system in diagram D
 (2mks)
- (iii) Give two advantages of the pruning system illustrated in diagram C over the pruning system illustrated in diagram D (1mk)
- (iv) Name two types of pruning that should be carried out after coffee has been established using the system illustrated in diagram C (1mk)

23. The diagram below illustrates common weed specimens found on the farms. Study the diagrams labeled E, F,G and H then answer the questions below.



(iii) What would be the effect on milk quality if specimen H is eaten by dairy cows

Give two advantages of the pruning system illustramd in diagram C over

24. A group of students carried out an experiment to separate a soil sample into Various particle sizes (fractions) without using chemicals. A 2mm sieve was used to sift the soil where all particles smaller than 2mm passed through while the rest was held back. The remaining soil was shaken in a measuring cylinder and allowed to settle as shown in the diagram below. i) Which particles were held back in the sieve (1/2 mk) ii) Name the constituents of the soil labeled P,Q,R,S,T in the diagram (2 1/2 mls P Q S S iii) State two properties of the soil influenced by the physical characteristic illustrated above. iv) If the soil sample described above was a PH of 3, give two ways of raising it to 25. The diagrams A,B,C,D and E below illustrate various methods of grafting. Use them to answer the following questions i) Identify the methods of grafting labeled A,B,C,D and E. (2 ½ mks) ii) Name the crops that are normally propagated using the following vegetative parts I. Splits (3mks) II. Slips III. Stem tubers IV. Stem cuttings V. Crowns VI. Sucker

Section C: (40marks) Answer any two questions from this section 26.a) Explain the various ways I which soil loses its fertility (8mks)	
b) Give two reasons why each of the following tertiary operations are necessary (6mks)	
i) Ridging	
ii) Leveling	
iii) Rolling (6mks) QAT	
iii) Rolling c) State six roles of living organisms in soil formation (6mks) 60 AT	
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27. a) Outline the problems that farmers face when marketing agricultural produce (14mks)	
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b) Describe various agencies and institutions involved in marketing of agricultural (6mks)	
b) Describe various agencies and institutions involved in marketing of agreement (6mks)	
28. a) Explain any five cultural methods of contracting (5mks)	
b) Outline the importance of keeping breeding records in a farm (5mks)	

c) Outline five ways in which land reform can be implemented in Kenya. (5mks)