SUKELLEMO PREMOCI	K EXAM		
443/1			
AGRICULTURE			
PAPER 1			
JUNE 2022			
TIME 2 HOURS			
CANDIDATES NAME			INDEX NUMBER
INSTRUCTIONS TO CAN	NDIDATES		
write your name and in	ndex number i	n the spaces provid	ed.
this paper consists of the	hree sections /	A, B and C	
answer all the question	s in the spaces	provided.	
answer two questions	from section C	•	
EXAMINERS USE ONLY			
CECTION	DAAVIDALIDA	CCORE	CANDIDATES SCORE

SECTION	MAXIMUM SCORE	CANDIDATES SCORE
Α	30	
В	20	
С	40	
TOTAL		



SECTION A 30 MKS

1. State four factors that one consider when selecting planting materials (2mks)
2. Explain the term agro-forestry as used in crop production. (1/2)
b) Name five sites for agro-forestry trees.(2 1/2mks)
3. State two crop production practices carried after planting to achieve optimum plant population.(1mk)
4. At what stage in the growth of beans should mechanical /weed control be avoided.(1mk)
5. Name one vegetative material used to propagate each of the following crops.(2mks) i. Irish potatoes
ii. Pineapples



iii. Bananas
iv. Pyrethrum
6. Explain two ways through which temperature leads to formation of soil. (1mk)
7. List four financial books that should be kept on a farm.(2mks)
8. Give two reasons for drying grain crops before storage. (1mk)
9. Give two sources where farmers get capital to start an enterprise. (1mk)
10. Explain how monocropping leads to a loss of soil fertility.(1mk)



11. What is oppourtunity cost?(1mk)
12. Outline two conditions that favours nomadic pastrolism in Kenya. (1 mark)
13. State four reasons why it is important to keep livestock health records. (2mks) .
14. Give four advantages of mixed pasture. (2mks).
15. Give two ways by which losses are incurred in silage. (1mk)
16. List two methods used to drain farm land. (1mk)



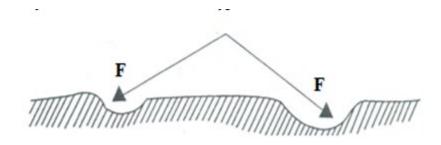
17. Give two varieties of carrots (1mk)
18. State two roles of water in plants. (1 mark)
19. Why is drainage important in water logged land? (2mks)
20. State two reasons why top soil layer of the soil profile should be maintained?(2mks)
21 Distinguish between extensive and intensive farming. (2marks)

SECTION B ANSWER ALL THE QUESTIONS (20MKS)

22. Sample weighing 200gm was heated in an oven at 1050C. The dry soil was weighed and the weight
recorded as 188 gm. The soil was then heated strongly after which was recorded as 180gms.
i) Calculate the percentage content of water in the initial soil sample. (2 marks)
ii) Why was the soil not heated strongly initially? (1 mark)
iii) Calculate the weight of humus in the sample. (1 mark)
iv) Find the percentage content of humus in the soil sample. (2marks)

X	Y
	Z Field
	rows indicate on the diagram above how materials should be transferred till the material is applied in the field. (1 mark)
neap to another	till the material is applied in the field. (1 mark)
neap to another	
heap to another	till the material is applied in the field. (1 mark)
heap to another	till the material is applied in the field. (1 mark)
heap to another	ndicators of a well decomposed manure. (2mks)
(b) State two (c) Give reaso	ndicators of a well decomposed manure. (2mks)
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24.Study the illustration below of a type of terrace.



(i) Name the type of terrace. (1mk)	
(ii) Identity part labeled F.(1mk)	
(iii) Ways in which terrace controls soil erosion. (2mks)	
(iv) Disadvantages of using this type of terrace.(1mk)	



SECTION C SELECT ANY TWO QUESTIONS (40MKS)

25a) what is solifluction? (1mk)
b) Explain four factors affecting solifluction. (8mks)



c) Describe the process involved in water treatment using a chemical treatment system. (11marks)
26a) Describe the practices that a farmer should carry out to ensure uniform germination of seeds. (8 marks)



b)i) Differentiate between land subdivision and land fragmentation.(2mks)
ii) Explain ten effects of fragmentation and sub-division of land. (10 marks)
27. a)state five objectives of the million scheme.(5mks)
b)what information should be included in field operation records.? (8mks)



c) Describe seven factors that should be considered when classifying crop pests.(7mks)