SUNRISE EVALUATION EXAMS FORM 3 - 2021

INAMIL	ADWI NO	CLA35
DATE:	SIGN:	······································
443 AGRICULTURE		
PAPER		
(THEORY)		

ADM NO

CTACC

SEPTEMBER 2021

DURATION:: 2HRS

Kenya Certificate of Secondary Education (K.C.S.E)

Instructions to candidates

NIANTE

- a) Write your name and index in the spaces provided above
- b) Sign and write the date of examination in the spaces provided above
- c) This paper consists of three sections A, B and C.
- d) Answer all the questions in sections A and B.
- e) Answer any two questions in section C
- f) All answers should be written in the spaces provided in the question paper.

For Examiner's Use Only

Section	Question	Maximum Score	Candidates Score
A	1 - 17	30	
В	18 - 24	40	
С	25-27	20	
Total So	core	90	

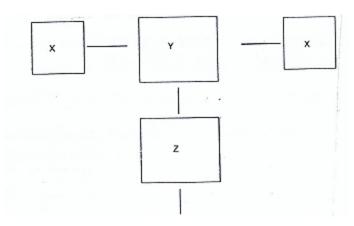
1.	Give four activities that may be undertaken in organic farming.	(2 marks)
2.	State four harmful effects of wind on crop production	(2 marks)
0		(2 1)
3.	State four practices that can be used to improve water logged clay soils	(2 marks)
4.	State four factors considered when selecting planting materials	(2 marks)
5.	Give two causes of blossom-end rot in tomatoes	(1 mark)
6.	Give four pieces of information contained in a land title deed.	(2 marks)
7.	Name three macro-nutrient elements whose deficiency symptom is chlorosis	(1½ marks)

8.	State two water treatment processes that take place in the coagulation and sedim	entation tank.
		(1 mark)
9.	State four reasons for pruning fruit crops	(2 marks)
10	NT discount of the state of the	(11/ 1)
10.	Name three practices carried out to improve and maintain permanent pastures	(1½ marks)
11	State four advantages of timely harvesting of crops	(2 marks)
11.		
12.	List three tertiary operations that may be carried out in a seedbed	(1½ marks)
13.	List four disadvantages of using compost manure in crop production	(2 marks)
14.	Name the camel breed with two humps.	(1 mark)

15. Name the vectors for each of the following livestock diseases.	(2 marks)
a) East coast fever	
b) Rift valley fever	
c) Trypanosomiasis	
d) Nairobi sheep disease	
16. Give four factors considered when selecting a site for fish pond.	(2 marks)
	•••••
	•••••
	•••••
17. Name the tools used in	(2 marks)
(i) Cutting curves on thin wood.	•••••
(ii)Measuring the inner diameter of a circular object/surface	• • • • • • • • • • • • • • • • • • • •
(iii)Cutting thin sheets of metal	• • • • • • • • • • • • • • • • • • • •
(iv)Tightening wires during fencing	
SECTION B (40MKS)	
18. Study the illustration below and answer questions that follow.	
(a) Identify the management practice indicated above.	(1 mark)

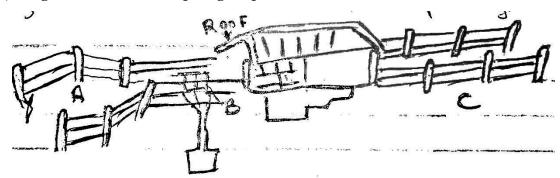
(b) Give three problems that could arise if the above practice is not carried of	out. (3 marks)
19. The diagram below illustrates an experiment carried out by a Form one it carefully and answer the questions that follow.	student on soil. Study
Funnel Water Cotton wool Measuring cylinder Drained water	
(a) State the aim of experiment above.	(1 mark)
(b) Identify the soil samples in each of the funnels labeled Q and R QR	
(c) Give two ways in which the soil structure of the sample labeled S above	
	(2 marks)

20. The diagram below illustrates a method of preparing compost manure. study it and answer the questions that follow.



(a) Identify the method illustrated above.	(1 mark)
(b) By using arrows, indicate the direction of the materials form X to the field	(2 marks)
(c) State two desirable factors considered when siting compost manure pit.	(2 marks)
	••••••

21. a) Diagram below show a plunge dip.



- (a) Using a arrow on the diagram show the movement of cattle (½mark)
- (b) State one use of parts A, B and C

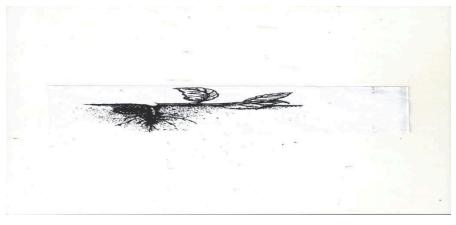
 A.....

 B.....

 C. (3marks)

(c) State two precautions a farmer should take on dip to ensure effective dipping	(2marks)
(i)	
ii)	
d) State two uses of the roof of the dip	(2marks)
(i)	
ii)	
b) State three disadvantages of a plunge dip	(3marks)
22. Below is a diagram showing parts of a fence. Use it to answer the questions tha	t follow.
K H	
(a) Identify the type of fence above.	(1mk)
(b) Name the parts labeled H and J.	(2mks)
Н	
J	•••
(c) What is the role of the part labeled K?	(1mk)
(d) On the diagram, draw a dropper in the right position.	(1mk)

23. The diagram below shows a pest and the damaged crop study it and answer the questions that follow.



	a) Identify the pest illustrated above	(1mk)
	b) Explain two ways of controlling the pest	(2mks)
		•••••
	c) State two ways in which the pest economically important.	(2mks)
		•••••
24.	a) Distinguish between straight and compound fertilizers.	(1mk)
		•••••
	b) A farmer applied 200kg of C A N (20%N) per hectare maize crop. Calculate to	he amount
	of Nitrogen applied on his 5 hectare crop. Show your working	(4mks)

SECTION C (20MKS)

- 25. (a) Describe the production of beans under the following sub-topics;
 - (i) Planting (4 marks)

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••••••		
••••••		•
••••••		•
(ii)	Field practices	(4 marks)
(iii)	Harvesting	(4 marks)
b) Ou	tline four safety measures undertaken in the use of herbicides to minimize	
	vironmental pollution.	(4 marks)
•••••		
•••••		
c) Des	scribe the precautions taken into account during harvesting of cotton	(4 marks)
••••••		•••••

26.	(a) Describe five pre-disposing factor of livestock diseases.	(5marks)
		•••••••••••••••••••••••••••••••••••••••
		••••••
	(b) Describe six mechanical methods of controlling ticks	(6marks)
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		••••••
		••••••
	(c) Describe the factors that affect milk composition of a cow	(9marks)
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27.	(a) Describe various cultural uses of livestock.	(8mks)
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(b) Describe various livesteek rearing practices	(12mks)
(b) Describe various livestock rearing practices.	(12mks)
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