SUNRISE EVALUATION EXAMS FORM 2 - 2021

NAME	ADM NO	CLASS
DATE:	SIGN:	••••
443 AGRICULTURE		
PAPER		
(THEORY)		
SEPTEMBER 2021		
DURATION:: 2HRS		

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

Instructions to candidates

- 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 all the 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 - 18	30	
В	19 - 25	40	
С	26	20	
Total So	core	90	

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

8.	Outline four main reasons for secondary tillage.	(2 marks)
9.	Name four types of water pumps which can be used on a farm.	(2 marks)
10.	State two advantages of earthing up in crop production.	(1 mark)
11.	Give a reason for carrying out each of the following practices in a tomato nursery.	
		(2 marks)
	(a) Pricking out	
	(b) Hardening off	
12.	Name four light breeds in poultry.	(2 marks)
13.	Give four biotic factors which influence Agriculture positively.	(2 marks)

14. State two farming practices which enhance organic farming.	(1 mark)
15. Which chemical are used during water treatment to;	(1½ marks)
(a) Coagulate solid particle	
(b) Soften the water	
(c) Kill pathogens	
16. What do you understand by the following terms?	(1½ marks)
(a) Seed dressing	
(b) Seed inoculation	
(c) Chitting	
17. State the uses of the following farm tools and equipment.	
(a) Secateurs	(1 mark)
(b) Sickle	(1 mark)
(c) Bolus gun	(1 mark)
18. State four maintenance practices carried out on a wheel barrow.	(2 marks)

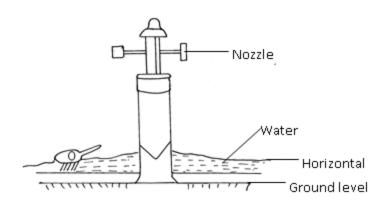
SECTION B (40MKS)

19. The diagram below shows a method of layering. Study it and answer the question	ons that follow.
Rooting me Rooting medium Developing Developing roots	
(a) Identify the method of layering illustrated above.	(1 mark)
(b) State one circumstance in which the method of layering indicated above is recor	nmended. (1 mark)
20 - \ M-i 1201 /1 (-11	
20. a) Maize requires 120kg/ha of phosphorus pentoxide (P ₂ O ₅). How much of the of fertilizer 20:20:10 would be applied to 0.4 hectare of land to achieve this rate.	compound
	compound (2 marks)
fertilizer 20:20:10 would be applied to 0.4 hectare of land to achieve this rate.	

c) State four methods of harvesting water on the farm.	(2 marks)
21. The diagram below is an illustration of a composite pit. Study the illustration a questions that follow.	and answer the
5 4 3 2	
THE PARTY I	
(a) manne me paris iaveneu 1 – 3.	(1 ½ mark)
1	
2	
3	•••••
(b) Give the importance of 5, 4, and 3.	(1½ mark)
5	
4	

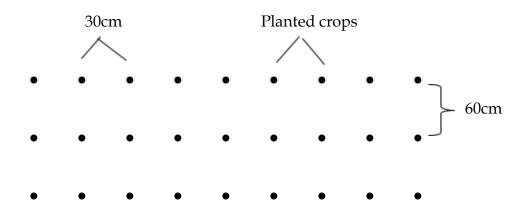
(c) (i) Why is it advisable that a long sharp pointed stick driven into the	e compost pit at an
angle?	(1 mark)
(ii) State two ways of identifying that the manure is ready.	(2 marks)
(d) State two functions of the part labelled H in the diagram.	(2 marks)
2. Below are tools used on the farm. Study them and answer the questions	s that follow.
A Company of the Comp	
a) Give the identity of each tools above.	(2 mark)
A	
B	
D	

(c) S	tate the functional difference between tool C and D.	(1 mark)
(d) S	tate any two precaution that should be taken into account when using the above	e tools.
		(1 mark)
23. T	The diagram below is an illustration of a camel. Study it and answer the question	ns that follow.
i.	Identify the camel species illustrated above	(1 mark)
ii.	Using the letter L indicate on the animal where the load is placed on the came	el. (1 mark)
iii.	Name two products a farmer would obtain from the camel illustrated above.	(2 marks)
24. S	tudy the diagram below and answer the questions that follow.	



a) Name the method of irrigation illustrated above.	(½ mark)
b) State two advantages of this method of irrigation.	(1 mark)
c) State three problems encountered by farmers using this method of irrigation	(1 ½ marks)
Nozzle named in (a) above.	
Water	
Horizontal Ground level	

25. The diagram below shows a method of planting used to establish a certain variety of crop



(6	(a) Identify the method of planting used	(1mk)
(1	b) Give the interplant spacing followed above	(1mk)
•		
(0	c) Give three advantages of the above method of panting	(3mks)
•		
•		
(0	(d) The spacing above was used to establish a crop on an area of land measuring	
	Calculate the crop population. Show your working	(5mks)
	SECTION C(20MKS)	
26. ((a) State four methods of preparing planting materials in readiness for planting.	(4 mks)
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• ·		
(1	b) State eight practices carried out to ensure field hygiene.	(8 mks)

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(c) Discuss factors that should be put into consideration while choosing suitable in	mplements
for primary gultivation	(0 1)
for primary cultivation.	(8 mks)
101 primary curuvation.	,
	•••••