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443/1 **AGRICULTURE** PAPER I TIME 2 HOURS

SCHOOL BASED FORM 4 EXAMINATION

JULY /AUGUST 2017

INSTRUCTION TO CANDIDATES

- 1. Write your name and adm. No. in the spaces provided above
- 2. This paper consists of three sections A, B and C
- 3. Answer all the questions in section A and B and two questions in section C in the spaces provided

SECTION	Questions	Maximum	Candidate's
4		Score	Score
A	1-18	30	
В	19-22	20	
С		20	
		20	
	Total	90	
	Score		

SECTION A (30MARKS)

Answer ALL the question in this section in the spaces provided

Give one reasons why agriculture is regarded as a science	(1mk)
(i)	
List four methods of farming	(2mks)
(i)	
(ii)	
(iii)	.2
(iv)	
Differentiate between soil structure and soil texture	
Differentiate between soil structure and soil texture	(1mk)
W.C.	
4.46	
State four reasons for draining a water logged land	(2mks)
(i)	
(ii)	
(iii)	
(i) (ii) (iv) (iv)	
800	
State two effects of siltation in dams and reservoirs	(1mk)
(i)	
(ii)	
Give three benefits of undersowing in pasture production	(1mk)
(i)	
(ii)	
(iii)	

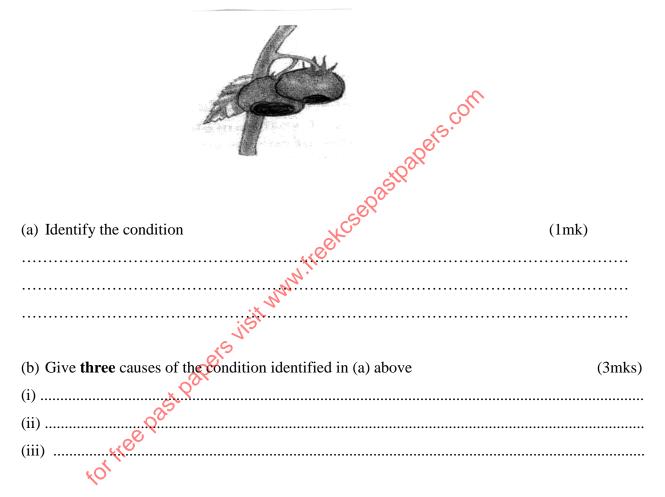
7.	Give four reasons for growing crops under optimum temperature condition	(2mks)
	(i)	
	(ii)	
	(ii)	
	(iii)	
8.	Name one vegetative material used to propagate each of the following crops	(2mks)
	(a) Bananas	
	(b) Pineapples	
	(c) Irish Potatoes	
	(c) Insh Potatoes (d) Pyrethrum List fouradvantages of the title deed to a farmer (i) (ii) (iii) (iv) What is meant by the following terms in crop as production? (a) Crop rotation.	
9.	List fouradvantages of the title deed to a farmer	(2mks)
	(i)	
	(ii)	
	(iii)	
	(iv)	
	nd.	
10.	What is meant by the following terms in crop as production?	
	(a) Crop rotation	(1mk)
	(b) Mulching	(1mk)
	What is meant by the following terms in crop as production? (a) Crop rotation	,
11.	Give two factors than can increase seed rate in crop production	(2mks)
	Give two factors than can increase seed rate in crop production (i)	
	(ii)	
	(iii)	
	(iv)	
12.	State threefunctions of Nitrogen in crops	(1 ½ mks)
	(i)	
	(ii)	
	(iii)	

State four ways of improving labour productivity on the farm	(2mks)
(i)	
(ii)	
(iii)	•••••
(iv)	
State four advantages of applying lime as a measure of improving soil condition	(2mks)
(i)	
(ii)	
(iii)	
(iv)	
estipio .	
List three sources of organic matter in the soil	(1 ½ mks)
(i)	
(ii)	
(iii)	
(iii) (iii) (iv) List three sources of organic matter in the soil (i) (ii) (iii) List four post harvest practices that are carried out in maize production	(2mks)
(i)	
(ii)	
(iii)	
List four post harvest practices that are carried out in maize production (i)	
Give three factors affecting selectivity and effectiveness of herbicides	(1 ½ mk)
(i)	••••••
(ii)	
(iii)	

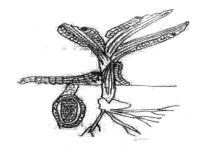
SECTION B (20 MKS)

Answer all questions in this section in the spaces provided

19. The diagram below shows a physiological condition of tomatoes . Use it to answer the following questions.



20. The diagram drawn below shows pests that attack crops in the field. Use it to answer the questions that follows.



(a) Identify the pest	(1mk)
(b) Classify the above pest depending on the feeding habit	(1mk)
(c) List three effects of the pest above in crop production	(3mk)
(i)	
(ii)	
(iii)	
The diagram below illustrates a final seedbed after a tertiary operation of preparation. Study it carefully and answer the questions that follow	one during land
Study it carefully and answer the questions that follow	
astport of the second of the s	
LESEN CONTRACTOR OF THE PROPERTY OF THE PROPER	
or tree Past Papers	
(a) Name the tertiary operation carried out on the seedbed	(1mk)
(b) Describe how the tertiary operation named in (a) above is carried out	t (2mks)
Give two advantages of planting crops on the final seedbed illustrated al	bove (2mks)
(i)	
(ii)	

22. The table below shows the population and gross domestic products of countries A and B

Country	Gross Domestic	Population	
	Produce		
	(Million Kshs)	(Million)	
A	1800	36	
В	1200	15	
(a)	Calculate the	e per capita income for each country.	Show you
working	(3mks)	alets. V	
		in the second se	
	-04°		
(b) Which of the tv	vo countries is more developed eco	nomically	(1mk)
	ant.		, ,
	or your answer in (b) above		(1mk)
			, ,
(d) How can agricu	ulture increase the gross domestic p	roduct of a country	(1mk)
(i)	, st V	-	
, , , , , , , , , , , , , , , , , , ,	(So So		
CTION C (40 MA	<u>(RKS)</u>		
swer any TWO qu	estions from this section in the sp	paces provided after question 25	
(a) Discuss pro	duction of beans (Phaseolus Vulgar	ris) under the following sub-headings	
(i) Selection an	d preparation of planting materials		(3mks)
(ii) Planting			(3mks)
(iii) Disease c	ontrol		(2mks)

(b) Outline four factors that determine the depth of planting maize seeds

(c) Outline the advantages of a mixed grass legume pasture over pure grass

(4mks)

(8mks)

24.	(a) Explain the factors that contributes to competitive ability of weeds	(7mks)
	(b) State five factors that determine the choice of irrigation to use in the farm	(5mks)
	(c) Outline five characteristics of fertile soil	(5mks)
	(d) Name three types of soil water?	(3mks)
25.	(a) Describe five characteristics of Nitrogenous fertilizers	(5mks)
	(b) Discuss the guidelines that should be followed when planning a crop rotation	n programme
	(10mks)	
(c)	Explain the importance of a nursery in crop propagation	(5mks)
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