NAME	INDEX NO:
CANDIDATE'S SIGNATURE:	DATE:
443/1 AGRICULTURE PAPER 1	
MARCH/APRIL 2015	

SUNSHINE SECONDARY SCHOOL

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

443/1 AGRICULTURE PAPER 1 MARCH/APRIL 2015 2 HOURS

INSTRUCTIONS TO CANDIDATES

www.eeducationgroup.com

2 HOURS

- 1. Write your name and date 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** any **two** questions from section C.
- 4. Answers should be written in the spaces provided.

FOR EXAMINERS USE ONLY

Section	Question	Maximum score	Candidates score
A	1 - 14	30	
В	15 - 18	20	
С	19 - 21	20	
		20	
Total score		90	

This paper consists of 12 printed pages.

Candidates should check the question paper to ensure that all pages are printed as indicated

SECTION A (30MARKS)

ANSWER ALL QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED

1.	State four disadvantages of extensive farming.	(2 marks)
• • •		• • • • • • • • • • • • • • • • • • • •
• • •		• • • • • • • • • • • • • • • • • • • •
• • •		• • • • • • • • • • • • • • • • • • • •
2.	State four human factors that lead to low crop production.	(2 marks)
• • •		
•••		
• • •		
3.	State four characteristics of soil that influence crops planted.	(2 marks)
3.	State four characteristics of soil that influence crops planted.	(2 marks)
3.	State four characteristics of soil that influence crops planted.	
3		
3		

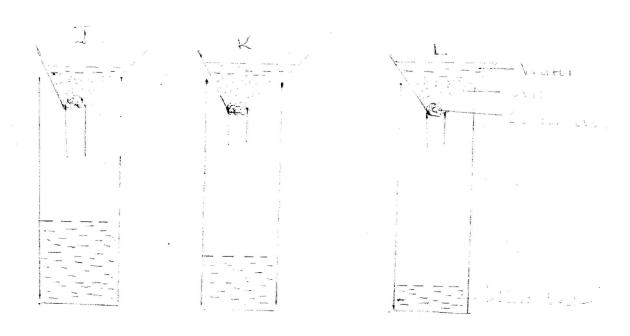
5.	Mention four reasons for ridging in crop production.	(2 marks)
6.	State four practices that encourage minimum tillage.	(2 marks)
	(a) NI Al	(11/
7. 	(a) Name three non chemical methods of water treatment.	(1½ marks)
	(b) State four advantages of trickle irrigation.	(2 marks)

8.	State four importance of organic matter in sandy soil.	(2 marks)
9.	Name four types of records kept by a poultry farmer.	(2 marks)
10	. (a) Name two forms of nitrogen element is absorbed by plants.	(1 mark)
	(b) Name any two methods of harvesting agro forestry trees.	(1 mark)
•••		
11	. (a) State four importance of nursery practice in vegetable crop production.	(2 marks)

w.eeducationgroup.com	
(b) Name three vegetative propagation material used to propagate pineapples.	(1½ marks)
(a) - versa reservablement beschräden.	(=,======)
2. State four effects of excessive application of nitrogen fertilizer on growing crops.	(2 marks
	,
13. State four cultural ways of controlling nematodes in a field of bananas.	(2 marks
4. Distinguish between Pricking out and Rogueing.	(1 mark

SECTION B: (20 MARKS) ANSWER ALL THE QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED

15. The diagram below illustrates an investigation on property of soil using soil samples labeled J, K, and L

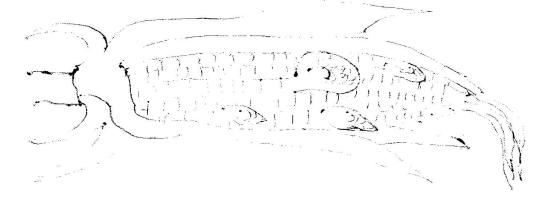


(a)	property of soil being investigated.	tne (1 mark)
(b)) What is the relationship between the soil property named in (a) above and the size	of soil
	particles.	(1 mark)

(c) Which soil sample would be suitable for growing paddy rice?	(1 mark)
(d) Name the type of soil.	(2 marks)
J L	
16. Use the diagrams below that show pruned plants after budding to a follow	nswer the questions that
(a) Which diagram shows the correct pruning cut?	(½ mark)
(b) Explain why the other three cuttings are wrong?	(1½ marks)
c) State three importance of pruning coffee.	(3 marks)
(c) State three importance of pruning coffee.	(3 marks)

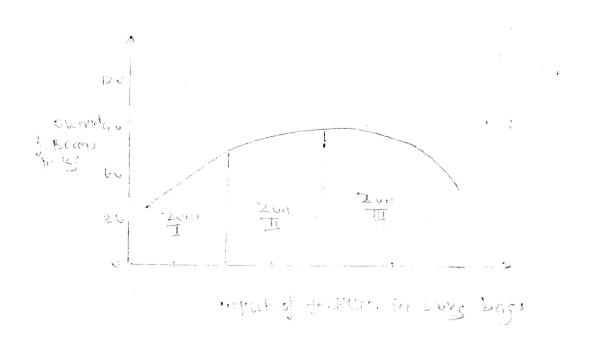
٧W	w.eeducationgroup.com	

17. Use the diagram below that show maize cob attacked by a disease. Study it and answer the questions that follow.



(a) Identify the crop disease illustrated above.	(1 mark)
(b) A part from maize name other two crops attacked by the same disease.	(2 marks)
(c) State two control measure of the disease in (a) above.	(2 marks)

18. Below is a graph representing the law of diminishing returns. Study it carefully and answer the questions that follow.



(a) Explain what would happen to each of the three zones marked I, II, and III in relation to fertilizer input to beans output. (3 marks)

(b) Which is the rational zone among **three** zones and why? (2 marks)

ww.eeducationgroup.com	
<u>SECTION C: (40MARKS)</u> Answer any two questions from this section in the spaces provided after question	on 21
19. (a) Describe five agencies involved in marketing of Agricultural products.	(10 marks)
(b)Explain six practices carried out in the field that control maize diseases.	(6 marks)
(c) State four importance of irrigation.	(4 marks)
20. (a) Outline five farming activities which may encourage soil erosion.	(5 marks)
(b) (i) Describe harvesting of cotton.	(5 marks)
(ii) Explain the precaution during harvesting of sugarcane.	(3 marks)
(c) Describe the production of carrots under the following sub-headings.	
(i) Seedbed preparation	(3 marks)
(ii) Field management	(4 marks)
21. (a) Explain seven factors that influence seed rate during planting.	(7 marks)
(b) Outline five factors necessary for proper functioning of farmers' co-operat	ive societies in
Kenya.	(5 marks)
(c) Explain 8 ways farmers can overcome risks and uncertainties in a farming	business.
	(8 marks)

www.eeducationgroup.com

www.eeducationgroup.com	
	• •
	• •
	• •

www.eeducationgroup.com

www.eeducationgroup.com NAME	INDEX NO:
CANDIDATE'S SIGNATURE	DATE:
443/2	
AGRICULTURE	
PAPER 2	
MARCH/ APRIL 2015	

SUNSHINE SECONDARY SCHOOL

Kenya Certificate of Secondary Education (KCSE)

443/2 AGRICULTURE PAPER 2 MARCH/APRIL 2015 2 HOURS

INSTRUCTIONS TO CANDIDATES

2 HOURS

- 1. Write your name and index number in the spaces provided above.
- 2. Sign and write the date of examination in the spaces provided above.
- 3. This paper consists of three sections, A, B and C.
- 4. Answer all the questions in sections **A** and **B**.
- 5. Answer any two questions from section **C**.
- 6. Answers should be written in the spaces provided.

FOR EXAMINERS USE ONLY

Section	Question	Maximum score	Candidates score
A	1 - 14	30	
В	15 - 18	20	
С	19 - 21	20	
		20	
	Total score	90	

This paper consists of **10** printed pages. Candidates should check the question paper to ensure that all the Pages are printed as indicated and no questions are missing.

SECTION A: (30 MARKS)

Answer ALL questions in the spaces provided

1. (a) State four importance of keeping rabbits.	(2 marks)
(b) Name two dual purpose breeds of cattle.	(1 mark)
2. Give two reasons for flushing in sheep management.	(2 marks)
3. State four qualities of a good vaccine.	(2 marks)
4. Name any four components of a zero-grazing unit.	

(2 marks)
(2 marks)
(1½ marks)
(2 marks)
(3 marks)
w. (2 marks)

www.eeducationgroup.com		
10. Give the breeding system involved in each of the following cases;		
(a) Friesian sire mated with Aryshire dam.	(½ mark)	
(b) Friesian sire (father) mated with Friesian dam (daughter).	(½ mark)	
11. State four control measures of Tsetseflies.	(2 marks	
12. Name four examples of succulent feeds.	(2 marks	
13. List down three methods of treating bloat.	(1½ marks	
14. Give four reasons for maintaining farm tools.	(2 marks)	

SECTION B: (20 MARKS)

Answer ALL the questions in the spaces provided.

5. (a) The	diagram below represents a cross-section of a floor of a permanent	t milking shed.
(i) Label	on the diagram, the layers marked 1, 2, 3 and 4.	(2 marks)
1		
2		
3		
4		
(ii) State	two factors that influence quality of concrete.	(2 marks)

(a) Identify the structure.	(1 mark)
(b) Name the parts G, H and K.	(3 marks)
G	
Н	
K	
(c) State the factors to consider when siting the structure.	(2 marks)
17. Below are illustrations of live stock parasites. Study them and answer the	questions that follow.
(a) Identify the parasites A and B.	(2 marks)
A	
B	
(b) State two control measures for parasite B.	(2 marks)

www.	.eeducatior	ngroup.com 	
(c) G	ive two sy	mptoms of parasite A attack on cattle.	(2 marks)
 18. S	tudy the il	lustrations below and answer the questions below and answer the questions	s that follow.
(5	a) Identify	the tools J, K, L and M.	(4 marks)
(6	J .		(+ marks)
	K		
	L M		
		SECTION C: (40 MARKS) Answer any TWO questions from this section in the spaces provided.	
19. (a	a) Discuss	five factors considered when constructing a farm structure.	(5 marks)
(b) State any	five factors that should be considered when choosing tools and equipmen	t to use in the
`	farm.		(5 marks)
(c)) Describe	ten management practices carried out on a fish pond.	(10 marks)
20. (a	a) Compar	e the use of animal drawn implement to tractor drawn implements.	(10 marks)
(ł	b) Describ	e any five maintenance practices carried out on an ox-drawn plough.	(5 marks)
(0	e) Discuss	the advantages and disadvantages of using tractor hire serves in the farm o	ver using own
	tractor.		(5 marks)

21. (a) Describe the general effects of parasites on livestock.	(8 marks)
(b) Describe East Coast Fever (ECF) under the following sub-headings.	
(i) Animal attacked	(1 mark)
(ii) Causal agent	(1 mark)
(iii) Vectors	(1 mark)
(iv) Symptoms	(5 marks)
(v) Control measures	(2 marks)
(d) Name any four internal predisposing factors of animal diseases.	(2 marks)

www.eeducationgroup.com

www.eeducationgroup.com					

www.eeducationgroup.com		