NAME	INDEX NUMBER
	SIGNATURE
	DATE

443/1 **AGRICULTURE** PAPER 1 **TIME: 2 HRS** JULY/AUGUST 2016

WESTLANDS SUB-COUNTY JOINT EXAMINATION

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

AGRICULTURE

Paper 1 (Theory) July/August 2016 **Time: 2 hours**

INSTRUCTIONS TO CANDIDATES

- This paper consists of three sections: A, B and C.
- Answer all the questions in Section A and B
- Answer any two questions from Section C.
- All answers must be written in the spaces provided.

FOR EXAMINER'S USE ONLY

Section	Question	Maximum Score	Candidate's Score
A	1 - 18	30	
В	19 - 22	20	
С	23 - 25	20	
		20	
TOTAL SCORE		90	

SECTION A 30 MARKS (ANSWER ALL QUESTIONS)

1.	State three characteristics of shifting cultivation	(1 ½ mks)
2.	What do you understand by the term plantation farming	(1 mk)
3.	Give four benefits of good soil structure in crop production	(2 mks)

4.	State four reasons for sub-soiling in a maize field	(2 mks)
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5.	What factors would a farmer consider when deciding on the type of irrigation to use in rice production	(2 mks)
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6.	List any four ways in which soil is deprived of its fertility	(2 mks)
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7.	A form four student noticed that her crops of maize had intervenial chlorosis. What was the possible cause of the condition	(½ mk)

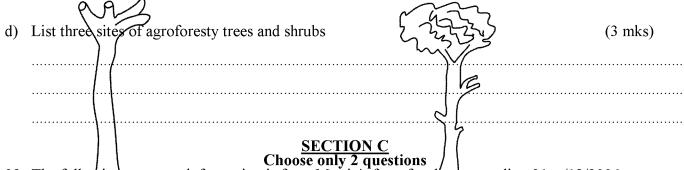
8.	Name three plant parts used for propagation of pineapples	(1 ½ mks)
9.	State five factors to consider when selecting a nursery site	(2 ½ mks)
10.	List five post-harvest practices carried out in tomatoes.	(2 ½ mks)
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11.	Why is it not advisable to use manure in carrot production	(½ mk)
12	Give four advantages of communal tenure system	(2 mks)
12.	Cive four advantages of Continunal tenure system	
13.	Give two ways which check dams control soil erosion	(1 mk)
14.	State five disadvantages of weeds in crop production	(2 ½ mks)

15.	Name any three insect pests with biting and chewing mouth parts	(1 ½ mks)
16.	State four factors affecting the efficiency of pesticides	(2 mks)
17.	State the law of substitution as used in Agricultural economics	(1 mk)
18.	Differentiate between complementary products and supplementary products	(2 mks)
	CECCHION D (20 MADICS)	
19.	SECTION B (20 MARKS) Answer all the questions in this section in the spaces provided The diagram below shows a method of forage preservation	

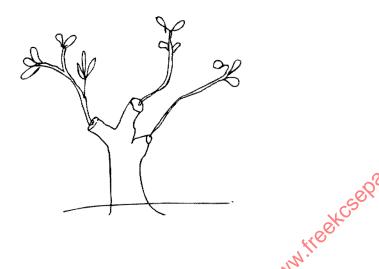
i) Identify the structure illustr	rated above Soil,layer Polythene sheet	(1 mk)
Drair	1age	
ii) State the form in which for	age is conserved as Newtrand Are Forage materials	(1 mk)
	Age is conserved as Nhistrated as A histrated as A	(1 IIIK)
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Cinc the male of the William	//////////////////////////////////////	(01)
iii)Give the role of the a) Polythene sheet	MG/YY/MG/SUMSWYYE/RWWYE/	(2 mks)
V//////	///////////////////////////////////////	
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b) Drainage		
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a) Identify the method of prot	pagation	(1 mk)
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n) Identify the method of proposition of proposition (a) Identify the method of proposition (b) Identify the method of proposition (b) Identify the method of proposition (c) Identify the method (c) Identify the Identify the Identify the Identify the Identify the Identify the Identification (c) Identify the Identify the Identification (c)	through the method	(1 mk) (1 mk)
n) Identify the method of proposition (a) Identify the method of proposition (b) Identify the method of proposition (b) Identify the method of proposition (c) Identify the method (c) Identify the Ident		(1 mk) (1 mk)
		(1 mk) (1 mk) (3 mks)
	the method above	
a) Identify the method of proposed by Name one crop propagated c) State three importances of the state of the	the method above Glass	
	the method above	
c) State three importances of	the method above —Glass container	
c) State three importances of t	the method above Glass container	

21. The following diagram shows a method of compost preparation

a) Identify the method	(1 mk)
b) Give four factors that should be considered when siti	ng the compost pit (2 mks)
c) State two factors that determine time the manure wor in the field 1 2 3	4 Field (2 mks)
, co	Ke est
Identify the following methods of harvesting agroforest a) b)	y trees (3 mks)
c)	



23. The following accounts information is from Martin's farm for the year ending 31st /12/2006



a) using the information above, prepare a profit and loss account for Martin's farm
b) From the calculations in (a) above state whether Mr. martin made a profit or loss
c) Explain four ways in which farmers may adjust to uncertainties
d) Discuss four agricultural support services available to the farms

(10 mks)
(2 mks)
(4 mks)

24. a) Describe the methods used in preparing materials in readiness for planting (6 mks)

b) Explain three factors that influence timely planting

fluence timely planting	ng	(6 mks)

Opening valuation	6,000/=
Paid wages	5,000/=
Bought equipment worth	18,000/=
Bought pig feeds worth	4,000/=
Sold mature pigs worth	7,000/=
Bought drugs worth	3,2000/=
Closing valuation	4,000/=
Solid maize worth	8,000/=
Rice in store	45,000/=
A tractor	300,000/=
Granary	20,000/=
Sold piglets worth	4,000/=
Sold cattle worth	80,000/=

25.	 a) Why is addition of dead and decaying plant and animal remain to the soil important? b) Discuss beans under the following sub-headings. i) Varieties ii) Planting iii) Pest and disease control iv) Harvesting 	(8 mks) (2 mks) (3 mks) (5 mks) (2 mks)
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Describe the various management practices carried out in the nursery bed.

(8 mks)

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