NAME	INDEX NUMBER					
SCHOOL	SIGNATURE					
	DATE					

443/1
AGRICULTURE
PAPER 1
JULY/AUGUST 2015
TIME: 2 HRS

KISH CENTRAL JOINT EVALUATION

KENYA CERTIFICATE OF SECONDARY EDUCATION (K.C.S.E)

AGRICULTURE

Paper 1
July/ August 2015
Time: 2 hours

INSTRUCTIONS TO CANDIDATES

- a) Write your name, school, index number and signature in the spaces provided above.
- b) This paper consists of three sections: A, B and C.
- c) Answer all the questions in Section A and B and any two questions from Section C.
- d) Answer all questions must be written in spaces provided in this question paper.
- e) Answer questions in English.

FOR EXAMINER'S USE ONLY

~ .	T	1	
Section	Question	Maximum Score	Candidates Score
Α	1 - 19	30	
В	20-22	20	1980年1981年
C		20	
The Arms of the State of the St		20.	
TOTAL	SCORE	90	

SECTION A (30 MARKS) Answer all questions in this section in the spaces provided.

Give four examples of land reforms that have taken place in Kenya.	(2 marks)
Give two ways in which a farmer can reduce losses in stored grains.	(1 mark)
Give four factors that determine the number of times secondary cultivation is done.	(2 marks)
State four ways of improving farm labour productivity.	(2 marks)
en de la companya de Companya de la companya de la compa	
Give four advantages of minimum tillage.	(2 marks
State four effects of weeds in a pasture crop.	(2 marks
Barana kan kan kan kan kan kan kan kan kan	
Success Oursion Plansman were to anything agreement	
The first of the second control of the secon	() marks
Give four physical weathering agents in the soil formation process.	(2 marks
Give four physical weathering agents in the soil formation process.	(2 marks

List six factors considered			(3 mark
••••••			
Give four characteristics of	crop grown for green man	ure.	O mode

List four types of financial l	ooks.		(2 marks
50kg/ha Nitrogen as to 60kg/ha P ₂ O ₅ at plantii 60kg/ha K ₂ O for top di	ig essing		
a) Calculate how much calculate	um ammonium nitrate 20%	6N would be required per	hectare? (2 marks
) Calculate how much doubt			
b) Calculate how much doubl	e super sulphate 40% P ₂ O ₃	would be required per h	ectare. (2 marks)
	(e. Vinzigali a boza).		
	(v. Vilwigialiai basa).		

		•••••	*******	••••••	
		*	*********		
	tages of farm pl				(3 marks
	**********************		************	· · · · · · · · · · · · · · · · · · ·	
•••••	•••••	••••••	••••••		
	•••••				
(dontify one 4	wa methode of i	ncreasing light int	ensity in crop	production.	(1 mark)
dentity ally tv	VO inculous of i	iloioming iligiic ili			

The diagrams propagation.		SECTION LL questions in t Z and B below illu answer the question			
The diagrams propagation.					
The diagrams propagation.		Z and B below illuanswer the question			
The diagrams propagation.		Z and B below illuanswer the question			f vegetative
The diagrams propagation.		Z and B below illuanswer the question			f vegetative
The diagrams propagation.		Z and B below illuanswer the question			f vegetative
The diagrams propagation.		Z and B below illuanswer the question			f vegetative
The diagrams propagation.		Z and B below illuanswer the question			f vegetative
The diagrams propagation.		Z and B below illuanswer the question			f vegetative
	labelled X, Y, Study them and	Z and B below illustrated answer the question of the property	ustrate materia		f vegetative Z
	labelled X, Y, Study them and	Z and B below illuanswer the question	ustrate materia	als and methods of low;	f vegetative Z
a) Name the	labelled X, Y, Study them and X parts labelled X	Z and B below illustrated answer the question of the property	istrate materia	als and methods of low;	f vegetative Z
a) Name the XY	labelled X, Y, Study them and	Z and B below illustrated answer the question of the property	istrate materia	als and methods of low;	f vegetative Z (2 mar
a) Name the XY	labelled X, Y, Study them and	Z and B below illustrated answer the question of the property	istrate materia	als and methods of low;	f vegetative Z
a) Name the XY	parts labelled X	Z and B below illustrate	istrate materia	als and methods of low;	f vegetative Z (2 mar
a) Name the X	parts labelled X methods of pro	Z and B below illustrate	istrate material ons which foll which foll with the state of the state	als and methods of low;	f vegetative Z (2 mar

. Ose the information on the table belowing answer the questions that follow:

Fertilizer inputs (units)	Maize yield (bags)	Marginal product (bags)	Average products		
0	50				
1	62 .				
2	66				
3	68				
4	69				
5	69				

a) Fill in the marginal product and average product column.

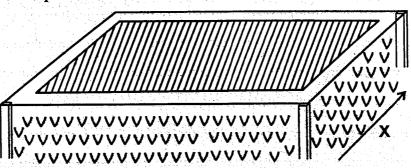
(5 marks)

17. The diagram below illustrates a tomato fruit infested by a certain pest.



i) Identify the pest	***************************************		(1 mark)
ii) State the damage caused by the pest or	n the fruit.		(1 mark)
iii) Name one alternate host of the pest in	n the diagram.		(1 mark)
iv) State two methods of controlling the	pest.		(2 marks)

18. The figure below represents a farm structure.



a) i) Identify the farm structure	(1 mark)
ii) What is the dimension of the part labelled X.	(1 mark)
iii) Give a reason for your answer in (ii) above.	(1 mark)

b) A plot of spacing o Calculate	land measures 6.6m long by 3.6m wide. The plot is prepared for perf 60cm by 60cm. The outer most row start 30cm from the edges as:	planting cabbages at a all around the plot.
	er of rows falling on the width side of the plot.	(1 mark)
ii) The numl	ber of cabbages seedlings that should be planted in the plot. (Shov	v your working). (2 marks)
	SECTION C: (40 MARKS) Answer any TWO questions in this section in the spaces p	rovided.
•	law of Diminishing Returns.	(2 marks)
	the above stated law by use of a graph and indicate the three impo	
production		(3 marks)
	ight ways how a farmer can adjust to risks and uncertainties. r advantages of budgeting in farm business.	(2 marks)
	hree uses of a balance sheet in farm accounts.	(4 marks) (3 marks)
	factors that influence the demand of a commodity in a market.	(6 marks)
20. a) Outline fo	our improper farming methods which accelerate soil erosion.	(4 marks)
	r problems caused by soil erosion.	(4 marks)
	now trees help in soil conservation.	(6 marks)
d) Outline s	ix benefits of agro-forestry.	(6 marks)
21 a) Evolain h	now the following climatic factors affect crop production in Kenya	
i) Light ii) Rainfa iii) Humi		(2 marks) (2 marks)
	he process involved in water treatment using chemical.	(2 marks) (6 marks)
The state of the s	r advantages of overhead irrigation over surface irrigation.	(4 marks)

	VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV	
	VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV	

•	***************************************			••••••	•••••	••••••	• • • • • • • • • • • • • • • • • • • •	••••	••••••	2	••••••	••••••	•••••
•		•	•••••	••••••	•••••			••••••	••••••	••••••	•••••	••••••	••••••
	***************************************	**************						•••••	•••••	••••	••••	•••••	

•		*************		••••••	••••••	••••••	•••••	•••••••	•••••••••	•••••		•••••••	
			•••••	•••••	•••••	•••••	•••••	••••••	••••••	•••••	••••••	•••••	
				••••••	••••••	•••••		••••••				•••••	••••••
- 1				•••••	••••••	••••••	••••••	•••••••	••••••				
			i Marija da ja ka 1900 Karaja da ja		***************************************								
- 194. 1										•••••			••••••
				••••••						••••••		•••••	•••••••
				••••••	••••••	•••••	•••••			•••••		••••••	
						******					•••••		
							*7**			* .			
	••••••				•••••			•••••••	••••••		•••••••		••••••
·													
	•••••••			•••••••		•••••				•••••••	•••••		
	•••••	•••••			••••••			••••••	••••••		•••••		••••••
		ng transfer new teg										ing in Lightnag	
Ž	*****									.) Al. 1	la ,	v	
			a di Rochi Ellino ya				••••••						********
	***************************************	*************			••••••		••••••	,	•••••	••••••		••••••	
									s mis chier ins				
	s very terminal			•••••			••••••						
			·		*********		********		· · · · · · · · · · · · · · · · · · ·	•		***********	
	***************************************							•••••	•••••			**********	
:	era je na povodnosti se		************************************		ingeneral en	1. 1. 1. 1. 1. 1.	9-1-15-0		North Control				
													· · · · ·
i. di	egi Namasanan Kabupatèn Kabupatèn		enagrasija e e		• • • • • • • • • • • • • • • • • • •			••••••				••••••••••	• • • • • • • • • • • • • • • • • • • •
	*************											***********	
			1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ti e e e e e				er ger . z h i	rees to the second	*****		* \$ - *	
			**************************************			*********				i Levelie	-		272
			• • • • • • • • • • • • • • • • • • •	eg e sa se oma									•••••
	***************************************		•						.,		•••••		
		ing property and a second second	eng gerere, Mareka	e e disciplina Significan		rijaka jerraja i Nordania							
	***************************************				••••••								
											•••••	••••••	