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NAME	••••••	index no	•••••
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AGRICULTURE PAPER 1	ge Rail	DATE	
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TIME: 2 HOURS	ing. Etc.		
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CENTRAL KENYA NATIONAL SCHOOLS JOINT EXAM - 2015

Kenya Certificate of Secondary Education TIME: 2 HOURS **AGRICULTURE**

INSTRUCTIONS TO CANDIDATES:

- Write your **name** and **index number** in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- This paper consists of **THREE** Sections **A**, **B** and **C**.
- Answer all questions in Section A and B and any Two in Section C.
- All answers must be written in the spaces provided.

FOR EXAMINER'S USE ONLY

Section	Question	Maximum	Candidate's
		Score	Score
A	1 - 18	30	
В	19 – 23	20	
C	24 -26	40	
Total	Score	90	

Agriculture Paper 1 **Turnover**

	i com	
	SECTION A: (30 MARKS)	
	Answer all questions in this section in the spaces provided.	
1.	State two advantages of intensive farming system.	(1mk)
2.	Outline four effects of application of nitrogenous fertilizers on tomatoes.	(2mks)
	Lee LCSE	
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ste		
3.	List four ways which are used to control stalk borers in maize.	(2mks)
4.	Give four factors that influence the quantity of water used in the farm.	(2mks)
5.	State four characteristics of trees and shrubs suitable for agroforestry.	(2 marks)

6.	Name three examples of leguminous fodder crops.	(1½mks)
	Cipeta.	
	[£] ^t ee ^e t	
7.	Give four methods of layering in crop production.	(2mks)
	- Age	
6	\CS\text{t}	
8. ^{\$76}	State four principles that govern the running of co-operatives in Kenya.	(2mks)
9.	Give four disadvantages of landlordism tenancy system of land tenure.	(2mks)
10.	List two types of labour record kept on the farm.	(1mk)
11.	Give reason as to why the following practices are carried out in preparation of planting	
	materials. (i) Seed dressing.	(½mk)

	(ii)	Seed innoculation.	(½mk)
	(iii)	Seed innoculation. Chitting. Litearchelparter.	(½mk)
12.	State	four factors influencing supply of beans in a local market.	(2mks)
	- LOS	$\sim^{e'}$	
	4C58		
13.°°,	z [©] State	four ways in which biological agents influence soil formation.	(2mks)
14.	Besid	be providing water to the plants. State two other uses of flood water to rice field.	(1mk)
15.	Outlin	ne four reasons for pruning fruits crops.	(2mks)
16.	State	four importance of breaking hard pan in land preparation.	(2mks)

17.	How (i)	are the following conditions prevented in carrot production? Forking.	(2mks)
	(ii)	Greening of root tuber.	
	SEC	ΓΙΟΝ Β: (20 MARKS)	
		ver all questions in this section in the spaces provided.	
10		6 ₉₂	trade it commontly
18.		llustration below shows a layout of a method of making compost manure. Somewer the questions that follow.	otudy it correctly
	and a		
\$ x	e e		
350			
		Field	
	(a)	Identify the method above.	(1mk)
	(b)	Heing letters V. V and 7 and arrows complete the diagram above	(4mks)
10		Using letters X , Y and Z and arrows complete the diagram above.	(4IIIKS)
19.	Obsei	rve the structures labelled L and answer the questions that follow.	
		L Soil layer	
		Channel	
		City of the control o	
		Silage	
	(a)	Name the structure labelled L .	(1mk)
	(b)	State the importance of the channel around the structure L .	(1mk)

	co th	
(c)	Outline two reasons for conserving forage.	(2mks)
(d)	Name two main silage losses that can occur during ensiling.	. (1mk)
Belov	w are diagrams of weed study them and answer the questions the	hat follow.
¢ CSF	Name two main silage dosses that can occur during ensiling. we are diagrams of weed study them and answer the questions the paper.	
z ^e		
	A	
(a)	A B Identify weed:	(2mks)
(a)	A	
(a) (b)		
	AB	

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21. The following transactions were extracted from Mr. Ouko's financial books for the month of February 2014.

1/2/14: Bought a mower Sh. 5,000

2/2/14: Bought animals feed Sh. 10,000

2/2/14: Sold 2 calves Sh. 4,000

19/2/14: Paid interest on loan **51**. 1,000

21/2/14: Sold eggs Sh. 2,000

Prepare a cash book for Mr. Ouko's farm.

Prepare a cash book for Mr. Ouko's farm.

Prepare a cash book for Mr. Ouko's farm.

(5mks)

SECTION C: (40 MARKS)

Answer any two questions in this section in the spaces provided.

22.	(a)	Describe five agricultural support services available to farmers.	(10mks)
	(b)	Explain five structural methods of soil erosion control.	(10mks)
23	(a)	Describe ten management practices carried out on a nursery to ensure proper seedling development.	(10mks)
	(b)	Outline six benefits from practising minimum tillage.	(6mks)
	(c)	State four precautinary measures that should be observed while harvesting pyrethrum.	(4mks)
24.	(a)	State five effects of wind while discourage crop production.	(5mks)
	(b)	Explain cultural method to control crop diseases	(8mks)
	(c)	What is a partial budget?	(1mk)

		contr	
)	Mr. Onyango has 4 hectares of arable la	หึ่d, 1.5 hectare of	f w

(d) Mr. Onyango has 4 hectares of arable land, 1.5 hectare of which is under wheat, 0.5 hectare under maize, 0.3 hectare under fodder crops and the rest is under either improved grass lev or natural grass. He wishes to know whether replacing 0.3ha of maize with potatoes the following season would be worthwhile. The fertilizer rate would have increased from 2 bags per hectare for maize to 2.5 bags per hectare for potatoes an extra 40 days of casual labour per hectare would be necessary as a result of the change. Average yields of maize and potatoes are 56 and 90 bags per hectare respectively. The price are Ksh. 1200 per bag of maize and Kshs. 300 per bag of potatoes. Seeds costs are Kshs. 1350 per 10 kg of maize and Kshs. 200 per 30 kg of potatoes. DAP fertilizer costs Kshs. 1400 per 50 kg bag. Labour is paid at Kshs. 150 per man day. He would require 10 bags of potatoes seed and 1 bag of maize seed to cover 0.3 of a hectare. Draw up a partial budget and indicate the effect of the change. (5mks)

the effect of the change.	(SIIIKS)
(e) What advise would you give this farmer?	(1mk)
(e) Vivida da vise would you give this faither.	(11111)
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