Name:	
2013	Candidate's Signature:
AGRICULTURE P.T.E	Date:
July/August 2013	
Time: $2\frac{1}{2}$ hours	ST30

THE KENYA NATIONAL EXAMINATIONS COUNCIL

PRIMARY TEACHERS EXAMINATION

AGRICULTURE

$2\frac{1}{2}$ hours

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 the questions in sections A and B.

Answer any THREE questions from section C.

Answers to ALL the questions must be written in the spaces provided in this booklet.

Do not remove any pages from this booklet.

Candidates should answer all the questions in English.

For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
A	1 - 5	30	
В	6 - 26	40	- 10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
(4) 		10	
\mathbf{C}	6 29	10	
	-	10	
		Total Score	

This paper consists of 12 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A (30 marks)

Answer ALL the questions in this section in the spaces provided.

	development.	sidered when preparing		(2 marks)
	<u> </u>	SXX	692	95 433
-	5.007	W 1865 37 W	(7 - 10 2)	11. 12.
(b)	Explain three factors	s that make the use of gr	oup experiment suitabl	
				(3 marks)
		2 - 2		
81 H		721	(115	18
	10 E	3 <u></u>	% <u>11 </u>	<u> </u>
	60 <u>mar—10</u> 60	V 19		100-11-10 11
			7 <u></u>	27.00 <u> </u>
2	City two manages with	ny the discussion method	d is used in the teachin	a of enjance
(a)	Give two reasons wi	ry the discussion memor	i is used in the teaching	g or science. (2 marks)
				(Z marks)
				(2 marks
	·			(2 marks
[250]				
- (b)		ions that a teacher shoul	d make before engagin	g learners in a group
	State three preparat discussion.		d make before engagin	g learners in a group (3 marks
		ions that a teacher shoul	d make before engagin	
	discussion.		d make before engagin	g learners in a group (3 marks)
	discussion.		d make before engagin	g learners in a group (3 marks
(b)	discussion			g learners in a group (3 marks
(b)	discussion			g learners in a group (3 marks
(b)	discussion			g learners in a group (3 marks)
(b) (c)	discussion. State six characteris	ntics of an ideal model fo		g learners in a group (3 marks

	-	
(a)	A teacher is expected to lead learners through an experiment in a scie four preparations that the teacher should put in place before the lesson	nce lesson. State
	P-P	u. (2 marks
r		842.92
		220.00
_8		
(b)	State three ways in which a lesson can be introduced.	(3 marks
	State Handle (Arganic Landon Arganic	
v.	··	
9.5		<u> </u>
		2.0
(c)	Civa fave sacona when he are should be	20
(0)	Give four reasons why a lesson should have a conclusion.	(2 marks
¥.		17 131 - 15
		320
		1.0
	The state of the s	
(a)	Explain three ways in which a teacher can handle a learner's respons	e when using the
	questioning technique.	(3 marks
		30.00 .00 .00
		15.5cg
(b)	During scheming, a teacher has a lesson tonic, seedbed preparation:	
(b)	During scheming, a teacher has a lesson topic; seedbed preparation:	
(b)	During scheming, a teacher has a lesson topic; seedbed preparation: (i) state one skill objective the teacher can have for the topic;	(2 marks)
(b)		(2 marks)
(b)		(2 marks)

	(ii)	give two learning the above objective	activities the t e.	eacher can ha	ve for the les	sson so as to) achieve (2 marks)
		80 8 8 88	· += **:	2 A 4	1.—1		E 1975
			_ =	a week	=	::	2.2
5. I	n a multiple question was	y <u>y 20 40 se</u>				provided f	or a
		OPTION	NUMBER	OF CANDID	ATES		
		A		7,048	1		
		В	1	195	1		
		C		186 171			
		<u>D</u>		171			
)	If option A w	vas the key:					
1	(a) deter	mine the difficult it	idex of the qu	estion;			(1 mark)
	()	s - z	34 <u>-38</u> 3 <u>1-38</u>	2 4			
	. 1558 55	<u> </u>			27	···	Market Mark
	0 0741 1 41 5	6 S -2 375	9. 171 89	<u> </u>		273	
		7.5	1 				· · · · · · · · · · · · · · · · · · ·
							(2 marks)
	(b) expl	ain the appropriate	ness of the que	estion in the te	est.		(2 114, 30)
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	120	a = = = = = = = = = = = = = = = = = = =		- visite 61	\$ \$		1000 IZ
	D. 1794	(-) + (11	10		 		_
			SECTION I	3 (40 marks)			
		Answer ALL the q	uestions in th	is section in th	ne spaces pro	vided.	
6.	State four	roles of agriculture					(2 marks)
12 84	5 8	. — = ==	= =			69 (44)	- T
					- 00		5 NO 12
42		N= = 2		ss - 3	155 <u>0 - 3</u>		
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teaching.				(2 marks
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	700° 10	82 <u></u>	10/20	1.00
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State four physical c	haracteristics of the	dromedary species of	camels in livesto	
				(2 marks
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30 C	()	70.7 <u></u>	29	<u></u>
<u> </u>	· · · · · ·	100		
Name three systems	of outbreeding used	in livestock improve	ment.	$(1\frac{1}{2})$ marks
7 <u></u>	127 <u>2</u>	·		
· 	(i.e	·	v	
<u> </u>	<u>2</u> 8		×	(11 m/c)
State three reasons v	vhy soil is important	t in erop production.		(l ¹ / ₂ marks
		or or of production.		(12 marks
· · ·		10.0	2005 BAS	200
200	50.1 5		<u> </u>	200
Give two functions of	f the Queen bee in t		<u></u>	(2 marks
Give two functions o	f the Queen bee in t		355	(2 marks
Give two functions o	f the Queen bee in t			(2 marks
	* <u></u>	he colony.		20 - 10 M
	* <u></u>	he colony.		20 - 10 M
Give two functions of	* <u></u>	he colony.		(2 marks (2 marks
List fou r harmful eff	* <u></u>	he colony.		20

13.	Name two methods of reclaiming semi-arid areas.	(1 mark)
	100 - 20 - 200 - 2	<u> </u>
	e (m. e transmission)	
14.	Why is tsetsefly control considered a land reclamation method?	(1 mark)
		(0.02-2007)
15.	State four body conformation features of a good dairy cow for breeding.	(2 marks)
		3 55
		379
		5.
16.	The diagram below shows a tool used on the farm.	
	(a) Identify the tool.	$(\frac{3}{2} \text{ mark})$
	\$150000	
	(b) State two uses of the tool.	(1 mark)

State three functions of Agricultural research services in livestock production. $(1\frac{1}{2} \text{ marks})$

17.

A CANADA	
(a) Name the type of propagation shown in the d	iagram, (1/2 mark)
(b) Describe the procedure followed when carryi	ing out the propagation illustrated above. (4 marks)
1/A	
	## <u>200_</u> # <u>20</u>
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turnersummitten (best better)	0 (market) 40(140) (M)
	3
Name two intensive poultry rearing systems.	(1 mark)
State four methods of utilising pastures.	(2 marks)
7	Turn over

The diagram below illustrates a type of vegetative propagation used in crop production. Study

18.

it and answer the questions that follow.

		NATE OF THE PROPERTY OF THE PR	
21.	(a)	Differentiate between macro-nutrients and micro-nutrients as used in so	oil fertility. (1 mark)
		<u> </u>	
			1012 THEFT
	(b)	State four symptoms of nitrogen deficiency in crops.	(2 marks)
	20	st atut , pro s santi s a	
	8 3		1403 E 18
			-
			<u> 10105 - 10 39</u>
22.	State	one use for each of the following farm structures:	
	(a)	crush;	$(\frac{1}{2} \text{ mark})$
	× 68		75 - 6
	(b)	green house;	$(\frac{1}{2} \text{ mark})$
	-		222
	(c)	brooder;	(<u>1</u> mark)
		· · · · · · · · · · · · · · · · · · ·	2002 80 %
	(d)	silo.	(<u>1</u> mark)
	08		34.7450 <u>275.30—3040</u> 27
23.	Nam	ne any three types of bechives used in Kenya.	$(1^{\frac{1}{2}} \text{ marks})$
		8-10	
	33 7 - 3 53 s		
24.	State	e four advantages of keeping livestock healthy.	(2 marks
	₩3		

State	e four requirements for clean milk production.	(2 marks)
	64-6 4-6 <u>9-6 - 7-6 - 1</u>	% %
		
8		
State	four effects of soil pH on crop production.	(2 marks)
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		\$1000 E.St.
100 m		
<i>iii</i>		TOTAL E
	SECTION C (30 marks)	
Ansu	er any THREE questions from this section in the spaces provided after qu	estion 30.
Expl	ain the factors considered when determining spacing in crop production.	(10 marks)
Desc	ribe the management of piglets from birth to weaning.	(10 marks)
(a)	Explain five disadvantages of land ownership through concession.	(5 marks)
(b)	Describe the roles of an effective farm manager.	(5 marks)
(a)	State five effects of aphids on vegetable crops.	(5 marks)
(b)	State five advantages of adding manure to sandy soils.	(5 marks)
		(
		17-2-3-37
	is used. ————————————————————————————————————	
212		
*		Z