MATHS GUARDIOLA

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ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

AGRICULTURE

5034/2

PAPER 2

NOVEMBER 2015 SESSION

2 hours

Additional materials: Answer paper

TIME 2 hours

INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces provided at the top of this page and on all separate answer paper used.

Section A

Answer all questions.

Write your answers in the spaces provided on the question paper.

Section B

Answer two questions from any one of Options 1, 2, 3 or 4. Write your answers on the separate answer paper provided. At the end of the examination, fasten the separate answer paper securely to the question paper.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part question. You are advised to spend no longer than 80 minutes on Section A.

FOR EXAMINER'S USE				
Section A				
Section B				
TOTAL				

This question paper consists of 10 printed pages and 2 blank pages.

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Section A [70 marks]

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Answer all questions in this section.

Candidates are advised to spend approximately 80 minutes on this section.

(a)		any three environmental factors limiting land use in Zimba
	1	
	2	
	3	
(b)	Desci	ribe how the following factors affect crop productivity:
	(i)	high rainfall intensity,
	(ii)	low rainfall intensity.
		Committee of the Commit
(c)	(i)	Describe the importance of indigenous trees in Zimbabwe

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			ree principles to gramme.	oo oosoi vou wi	on dosigning t	Jr
	1					
	2					
				1		_
						-
	3			7		
						[3]
	Table 2.1		field capacity	wilting point	available so water %	il
	light sand		3	1	2	
	sandy loan	n	14	,	8	
	silty loam		25	10)
	clay loam		29	20		
	(i) Con	nplete T	able 2.1.			[3]
	(ii) If a least	dry spel t likely	ll occurs, in which to show signs of	ch soil type wou moisture stress	ld the crops b	e
						[1]
	—— Describe an		ffects of adding			[1]
	—— Describe an		effects of adding			[1]
	—— Describe an					[1]
-	Describe an					[1]
-	Describe an 1 2					[1]

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2)	Describe properties of clay and sandy soils that make them crop production.	
	(i) clay	
		[2]
	(ii) sandy	
	The second secon	[2]
a)	Distinguish between basal dressing and top dressing fertilizers.	
		-
		-
		_ [2]
b)	State the importance of incorporating organic manure on arable soils.	
		-
		- 00
		- _[4]
c)	Explain the terms:	
	(i) imbibition	-
		_,[2]

(i	The state of the s	
	farm road.	
	1.	
	\$ -5 at m 20 vil - 35 - 0	
	2	901
		[2]
(i	 State any three reasons why gravel material is used to maintain farm roads. 	
	1	-40
	2	(1)
	3	[3]
(i	Describe any two desirable characteristics of materials us for making oxen yokes.	sed
	1	
	2	
,		
(1	i) Explain the importance of fences to farmers.	
	and the second s	
		[3]
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The fi	ollowing list is made up of risks and uncertainties. Complete ank spaces using an R for risk and U for uncertainty.	
(i)	change in government policy	
(ii)	damage of crops by drought	
(iii)	theft of cattle by poachers	
(iv)	price fluctuation of inputs	[4]
Distir		
(i)	variable cost and fixed cost,	
		0 0
		[2]
(ii)	gross profit margin and net farm profit.	
		[2]
State	any two benefits of farming co-operatives.	
1		
-		
2		
		[2]
	the bl (i) (ii) (iii) (iv) Distin (i) State 1	the blank spaces using an R for risk and U for uncertainty. (i) change in government policy (ii) damage of crops by drought (iii) theft of cattle by poachers (iv) price fluctuation of inputs Distinguish between the following terms: (i) variable cost and fixed cost. (ii) gross profit margin and net farm profit. State any two benefits of farming co-operatives. 1

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diagram shows the reproductive system of a bull. D C Name the structures labelled. A, C.	
D C (i) Name the structures labelled. A,	
D C C (i) Name the structures labelled. A,	
(i) Name the structures labelled. A,	
(i) Name the structures labelled. A,	
Α,	
C.	[1]
	[1]
(ii) State the function of the part labelled	
В,	[1]
D.	[1]
Describe the life-cycle of one host tick.	
	[5]
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(c)	For either rabbit or layers, state a stage when a maintenance ration	927
	would be used.	
	name of animal	[1]
	stage	495.
(a)	State and a secretary of tiples on form animals.	
(a)	State any three effects of ticks on farm animals.	
		7
	2	
	3.	[3]
(b)	Explain the importance of studying the life cycle of animal parasites.	
	g	
		-
	Alan.	[3]
(c)	A poultry farmer would like to formulate a ration with a total mixture of 500 kg, with a mixing ratio of 2 parts concentrate, to 3 parts maize meal.	
	Calculate the quantities of each ingredient (show all your working	g)
		[4]
		[4]
		[4]

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9 Section B [30 marks]

Answer two questions only from any one of the Options 1, 2, 3 or 4.

OPTION I: CROP HUSBANDRY

			OFTIO	A I: CKOL II	UBBANDRY	
8	(1	i) I	or a named legume f a suitable variety to	crop, discuss o grow.	the factors that affect the choi	ce [7]
	(1:) I	escribe the method o	of harvesting a	named legume crop.	[8]
9	(a		riscuss the advantage op production.	es and disadva	ntages of using herbicides in	[10]
	(b) D	escribe other method	ds of weed cor	ntrol besides use of herbicides	s. [5]
10	Fo	r a nar	ned cash crop, discu	ss the effects	of weeds on	
	(a)		owth,			[9]
	(b)	ha	rvesting.			[6]
			OPTION 2:	LIVESTOCE	CHUSBANDRY	
11	(a)	Fo yo	r a named ruminant ung from birth up to	animal, descr weaning.	ibe the management of its	[10]
	(b)	De run	scribe the desirable lainant animal.	breeding char	acteristics of a female	[5]
12	(a)	For to n	a named ruminant, narketing.	describe its n	nanagement from weaning	[10]
	(b)	Exp	lain why it is necess er.	sary to supple	ment feed to ruminants in	[5]
13	(a)	Disc requ	uss feed stuffs grow irements of a name	vn on the farn d non-rumina	n which meet the nutritional int animal.	[9]
	(b)	Desc	ribe a named viral	disease under	the following sub-heading	5
		(i)	symptoms,			[4]
		(ii)	prevention and co	ontrol.		
				5034/2 N20	015	[2]
					V	[Turn over