MATHS GUARDIOLA

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ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

AGRICULTURE

4001/2

PAPER 2

NOVEMBER 2020 SESSION

2 hours

Additional materials: Answer sheet, Scientific calculator.

TIME 2 hours

INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the spaces 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, one from each of Options 1 and 2. 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.

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USE	
Section A	
Section B	
TOTAL	

INFORMATION FOR CANDIDATES

The marks are 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.

This question paper consists of 12 printed pages.

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SECTION A [60 marks]

Answer all questions in this section.

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

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(e) Define the following terms as they are used in Agriculture:	
i) biodiversity,	
	[1]
if) poaching,	
iii) ecology.	[1]
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- 1	[1]
Describe the application of lime during seedbed preparation.	
and the second of the second o	
	1
	[4]
4001/2 N2020	[Turn over
	biodiversity, poaching. ceology. Describe the application of lime during seedbed preparation.

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soil. After 30 minutes the reading in the cy soil was 80 ml.	
Calculate the percentage of air in the soil s	ample.

(a) Explain the importance of crop breeding

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All the second control and the second control		
Describe th	e term heterosis.	
-		_
	- Marin Property	
	and the state of t	
Define the fe	ollowing terms:	
	ollowing terms:	
Define the fo	ollowing terms:	_*
	ollowing terms:	-
		_
emergency,		

For Entrated Use

4 (a)	Identify any five uses of livestock.	
		- The state of the
		-
		_
		[5]
(b)	Discuss any three reasons for castrating livestock.	
	TOTAL CONTRACTOR OF THE CONTRA	_
		[3]
·(c)	Give the functions of the following female reproductive parts:	
(1)	vagina,	
		[1
	4001/2 N2020	

(ii) [1] Explain the functions of the listed maize sheller parts: 5 (a) (i) roller, [1] (ii) . base plate, [1] (iii) pressing fan, [1] threshing cylinder, (iv) [1] feed tray. **(v)** [1] Explain the operational principle of a maize sheller. (b)

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For Exeminer' Use

(c)	Calculate the rolls of barbed wire required for measuring 100 m × 80 m. Standard roll of bar	bed wire is 700 m.	
		di .	
		124,711	
			4
		÷ 1	[3]
6 (a)	List any three importance of financial records	to a farmer.	
		10 mg	
		1	
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		2	
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	And the second second	100	[3

Compound D Chemicals Farm manager's salary Urea Farm licence	- \$200,00 - \$ 50,00 - \$400,00 - \$150,00 - \$100,00	
Calculate the gross margin f	for the enterprise. (Show all working)	
21 p =	Ч	
4 -	11 M	
Identity any two possible ca	auses of changes in prices of agricultur	
		The second

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Give a so	lution to each of the	following risks:				Estern U
	114				[1]	
fire.	and the same	- 4, 41	9.18%	5 25		
	for the		de la		[1]	

For Examiner Use

SECTION B [40 marks]

Answer two questions only, one question from each of option I and option 2

OPTION 1: CROP HUSBANDRY

7	(a)	Outline the socio-ecological importance of forestry.	[8]	
	(b)	Discuss the process of pricking out in gumtree establishment.	[4]	
	(c)	Describe and explain the management practices carried out in a gumtree plantation.		
8	(a)	Describe toxicity levels of agro-chemicals.	[8]	
	(b)	Explain advantages of conservation tillage.	[7]	
	(c)	Design, in sequence, a four year rotation for a field crop.	[5]	
9	(a)	Outline the advantages and disadvantages of organic fertiliser in crop production.	[9]	
•	(b)	Evaluate the use of silos in grain storage.		
	(c)	Describe ways of reducing the effects of environmental factors on crop production.	[5]	
			[6]	
		OPTION 2: ANIMAL HUSBANDRY		
10	(a)	Discuss characteristics of an acceptable fowl run.	[5]	
	(b)	Outline fuctions of any four parts of the digestive system of a named four legged non ruminant animal.		
	(c)	Describe desirable characteristics of a named breeding female of a	[8]	
	ŧ	non-ruminant animal.	[7]	
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Fish	400

11	(a)	State and explain two types of livestock immunity.	[4
	(b)	Discuss the Animal Health Act of Zimbabwe.	[7]
	(c)	Outline management operations carried out on a calf from birth to weaning.	[9]
12	(a)	Describe the management of broiler chicks from day old to two weeks of age.	[8]
	(b)	Describe the life cycle of a named internal parasite of a farm animal.	[7]
	(c)	Evaluate the importance of roughage in the diet of ruminant farm animals.	[5