



ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

AGRICULTURE

4001/2

PAPER 2

NOVEMBER 2023 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.

FOR EXAMINER'S				
USE				
Section A				
Section B				
TOTAL				
	3			

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 8 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.

1	(a)	State any four reasons for land preparation.	
			-
			-
			-
			-
	(b)	Identify classes of plants according to their life cycles.	_ [4]
			-
			- [2]
	(c)	Differentiate between photosynthesis and respiration.	_ [3]
			_
			- [3]



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2	(a)	State the four types of organic fertilizers.	
	(b)	Explain the causes of water pollution.	[4]
			_
	(c)	Describe the following terms:	
		(i) ammonification,	[1]
		(ii) nitrification.	_ [1]
3	(a)	Explain any four methods of weed control.	
			-
			-
			[4]

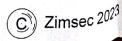
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		11 1 1 1 - 1		1 1
Differentiate b	etween monoc	otyledons an	d dicotyledo	ons.
2				
			0	
State any four	conditions con	sidered wher	designing a	t brooder hous
	-			





	(b)	Identify any advantages of artificial brooding.	
			 _[4]
	(c)	Evaluate the nutritive value of fish farming.	
			[2]
5	(a)	Evaluate the use of metal sheets for roofing farm structures.	
			507
	(b)	Identify any five building materials used in the construction of a water trough for cattle.	
			_
			_
			_ [5]

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	(c)	Describe any three properties of wood selected for making yokes.	
			_
			[3]
•	(a)	List any four risks in agriculture.	
			_
			 [4]
	(b)	Explain any four principles of cooperatives.	
		earts golden and a	- , ,
			_
			[4]
	(c)	Identify any two physical farm records.	=
			 [2]





SECTION B: [40 MARKS]

Answer two questions only, one question from each of option 1 and option 2

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OPTION 1: CROP HUSBANDRY

7	(a)	State	1	
		State a	dvantages of conservation tillage.	[8]
	(b)		the use of hybrid seed in crop production.	
	(c)			[7]
		Discus	ss the beneficial effects of weeds.	[5]
8	(a)	(i)	State any four cultural methods of weed control.	[4]
		(ii)	Identify the planting systems for an orchard.	[4]
	(b)	Discu	ss maize streak disease under the following headings:	
		(i)	mode of transmission,	[2]
		(ii)	prevention,	[2]
		(iii)	signs of infection.	[3]
	(c)	Discu	ass the importance of record keeping in cereal crop production.	[5]
9	(a)	Discu plot.	ass factors considered when selecting a tree for an agro-forestry	[8]
	(b)	Expla	in the advantages of overhead irrigation.	[7]
	(c)	Desci	ribe the fertilisation process in plants.	[5]

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		OPTION 2: ANIMAL HUSBANDKI			
10	(a)	Explain	n any four functions of the digestive parts of a non-ruminant.	[8]	
	(b)		be the symptoms of roundworm attack in farm animals.	[7]	
	(c)		s the difference between cross breeding and inbreeding.	[5]	
11	(a)		e the process of egg formation in poultry.	[8]	
	(b)	(i)	Identify functions of seminal fluids.	[3]	
		(ii)	Describe a suitable housing for rabbits.	[4]	
	(c)	(i)	Calculate the dressing out percentage of a rabbit with a live mass of 12kg and a dressing weight of 10.5kg . Show all working.	[3]	
		(ii)	Identify two methods of castrating farm livestock.	[2]	
12	Discus headin		ned viral disease of a named ruminant under the following		
	(a)	(i)	signs of attack,	[4]	
		(ii)	prevention and control,	[3]	
		(iii)	treatment.	[1]	
	(b)	(i)	Explain reasons for identifying farm animals.	[3]	
		(ii)	Identify nutrient deficient problems associated with livestock production.	[4]	



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(c)



Identify any five by products of a ruminant farm animal.

[5]