Candidate Name
MATHS GUARDIOLA

Centre Number
+447852954215

Candidate Number

ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

4001/2

AGRICULTURE

PAPER 2

2 hours

NOVEMBER 2022 SESSION

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	

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** effects of wildlife poaching.

_____

_____

_____

_____

_____

_____

_____ [4]

(b) Explain any **four** precautionary measures farmers use to guard against natural disasters.

_____

_____

_____

_____ [4]

(c) List any **two** disadvantages of monoculture.

_____

_____

_____

_____ [2]

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2 (a) Identify any **four** methods of water conservation in arable lands.

_____

_____

_____

_____ [4]

(b) Describe methods of improving soil structure.

_____

_____

_____

_____ [4]

(c) A farmer wants to plant one hectare of maize applying Compound D at a rate of **300kg /ha**. Calculate the amount of Nitrogen supplied to the crop, given the ratio on the bag is 7: 14: 7.

_____

_____

_____

_____ [2]

3 (a) List any **four** modes of weed spread.

_____

_____

_____

_____ [4]

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(b) Explain how plant leaves adapt to reduce transpiration.

[4]

(c) Discuss any **two** effects of plant diseases.

[2]

4 (a) Explain the importance of livestock breeding.

[4]

(b) Identify management operations carried out for either rabbits, layers or indigenous chickens.

[4]

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(c) Calculate the amount of dry matter required for a fortnight for a **500kg** cow that consumes **3%** of its body weight per day.

[2]

5 (a) List **four** animal drawn tillage implements.

[4]

(b) Explain the adjustments made on an ox drawn plough to attain the required depth of plough.

[4]

(c) Identify any **two** functions of a cultivator.

[2]

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6 (a) List any **four** sources of information for a farm budget formulation.

_____

_____

_____

_____ [4]

(b) Distinguish between controlled and uncontrolled markets.

_____

_____

_____

_____

_____

_____ [4]

(c) Identify any **two** types of farm records.

_____

_____ [2]

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SECTION B [40 MARKS]

Answer two questions only, **one** question from each of **option 1** and **option2**

OPTION: 1 CROP HUSBANDRY

7 (a) Discuss soil conservation measures on arable land. [8]

(b) Explain how a **named** legume crop is inoculated. [7]

(c) Identify problems encountered by farmers in the marketing of vegetables. [5]

8 (a) Explain the importance of agro-forestry. [8]

(b) Discuss the management operations carried out on an orchard. [7]

(c) Outline disadvantages of the mechanical weed control method. [5]

9 (a) Discuss the management of a named leaf vegetable from transplanting up to harvesting. [8]

(b) Explain how the following climatic conditions are important in crop production.

(i) Temperature, [4]

(ii) Rainfall. [3]

(c) Describe the preparation for marketing of a **named** root vegetable crop. [5]

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OPTION 2: ANIMAL HUSBANDRY

10 (a) Outline the breeding records of a **named** non-ruminant female. [8]

(b) Discuss why some indigenous farmers prefer to keep exotic breeds of cattle. [7]

(c) Justify the importance of hygiene in the prevention and control of livestock diseases. [5]

11 (a) Discuss a **named** viral disease in poultry under the following headings:

(i) cause, [1]

(ii) symptoms, [4]

(iii) prevention and control. [3]

(b) Discuss the importance of water in the animal's body. [7]

(c) Analyse the advantages of creep feeding in young farm animals. [5]

12 (a) List symptoms of attack by a **named** external parasite on a farm animal. [8]

(b) (i) Identify deficiency symptoms of protein in poultry or rabbits. [4]

(ii) Calculate the production ration of a pregnant sow if the maintenance ration is **1.5**kg pig meal per day and the requirement for production is **25%** more than the maintenance ration. [3]

(c) Discuss factors affecting water intake by a farm animal. [5]

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