

Candidate Name

Centre Number

Candidate Number



ZIMBABWE SCHOOL EXAMINATIONS COUNCIL
General Certificate of Education Ordinary Level

AGRICULTURE
PAPER 2

4001/2

NOVEMBER 2022 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.

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.

FOR EXAMINER'S USE

Section A	
Section B	
TOTAL	

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]

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]

(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]

(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]

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]

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) 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]

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 1.5kg 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]