

Candidate Name

Centre Number

Candidate Number



**ZIMBABWE SCHOOL EXAMINATIONS COUNCIL**  
General Certificate of Education Ordinary Level

**AGRICULTURE**  
PAPER 2

**4001/2**

**SPECIMEN PAPER**

2 hours

Additional materials:  
Answer paper,  
Scientific calculator.

**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 any **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**

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	
<b>TOTAL</b>	

**This question paper consists of 9 printed pages and 3 blank pages.**

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**[Turn over**

- 1** (a) Explain the importance of practising Agroforestry.

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[4]

- (b) Describe the following resettlement models in Zimbabwe.

(i) A1 

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[2]

(ii) A 2 

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[2]

- (c) Evaluate problems faced by beneficiaries of the land reform programme in Zimbabwe.

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[2]

- 2 (a) With the aid of diagrams, explain how soil sampling is done.

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[4]

- (b) Define a straight fertilizer and give an example.

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[2]

- (c) Comment on the effectiveness of a grass mulch in reducing evaporation.

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[2]

(d) List any **two** biological methods of controlling soil erosion in arable lands.

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[2]

3 (a) Explain why a fine tilth is vital in seedbed preparation.

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[4]

(b) State **four** ways in which pests damage plants.

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[4]

(c) Write down symptoms of oversupply of potassium in cereal crops.

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[2]

- 4 (a) Explain functions of the following parts of the female reproductive system of a ruminant:

Ovary \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

Cervix \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

- (b) State **four** reasons why water is important in the animal body.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [4]

- (c) Demonstrate how chicks behave when the brooder temperature is low.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

5 (a) Describe the uses of the following in fence construction.

(i) Anchor,

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[1]

(ii) Droppers,

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[1]

(iii) Standards.

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[1]

(b) List **three** tillage implements.

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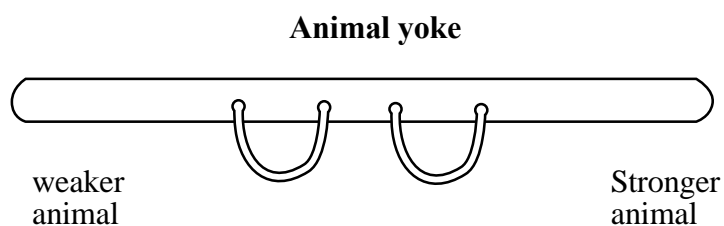


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[3]

(c) On the diagram of the yoke, show how trens are adjusted for the two animals.

[2]



- (d) Identify **one** tool used during fencing.

\_\_\_\_\_ [1]

- 6 (a) State the law of supply.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [3]

- (b) Discuss the importance of farm budgets.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [4]

- (c) A poultry farmer kept **90** birds and sold them at **\$5,00** each. The total expense for the project was **\$312-00**.

Determine the profit or loss of the enterprise. [3]

**8**  
**SECTION B**

*Answer **two** questions in this section. **One** question from each option.*

**OPTION 1**

- 7** (a) Outline a method of planting a named cereal crop. [10]
- (b) The recommended fertiliser application is **350kg/ha**, calculate the cost of fertiliser required for a field measuring **500m x 400m** if a **50kg** bag costs **\$33**. [5]
- (c) Justify the effectiveness of split application of ammonium nitrate. [5]
- 8** (a) Describe the operations of a planter. [7]
- (b) Explain the adjustment of either an ox drawn or tractor drawn mouldboard plough for depth and width of cut. [8]
- (c) Describe the functions of a:
- (i) harrow, [3]
- (ii) ridger. [2]
- 9** (a) Describe pre-emergence and post-emergence herbicides. [4]
- (b) Outline advantages and disadvantages of using mechanical weed control. [9]
- (c) Discuss factors considered when determining spacing of a **named** crop. [7]

**OPTION 2**

- 10** (a) Justify the importance of hygiene in livestock husbandry. [8]
- (b) Outline methods used to identify livestock in Zimbabwe. [7]
- (c) (i) Using the Pearson Square method, calculate the mixing ratio of feed stuff with **10% DCP** using cotton seed cake **17% (C.P)** and maize **6,5% (C.P)**. [3]



- (ii) An animal weighing **500kg**, consumes **3%** of its body weight per day. Calculate the daily feed requirement of the animal. [2]
- 11** (a) Describe factors considered when selecting breeds of livestock to keep on a farm. [8]
- (b) Outline the major causes of diseases in farm animals. [7]
- (c) The mixing ratio of oxyvet is **200ml** in **20** litres of water.
- (i) calculate the amount of oxyvet needed to mix in **5** litres of water. [2]
- (ii) recommend **three** ways to administer antibiotics to farm animals. [3]
- 12** (a) Distinguish between cross-breeding and in-breeding. [8]
- (b) Assess the impact of ticks on livestock farming in Zimbabwe. [12]

**10**  
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