Candidate Name	Centre Number	Candidate Number

ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

AGRICULTURE 4001/2

PAPER 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	
TOTAL	

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.

_____

_____

_____

_____

_____[4]

(b) Describe the following resettlement models in Zimbabwe.

(i) A1 _____

_____

_____

_____[2]

(ii) A 2_____

_____

_____

_____ [2]

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

_____

_____

_____

_____

_____

_____ [2]

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

_____

_____

_____

_____

_____ [4]

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

_____

_____

_____ [2]

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

_____

_____

_____ [2]

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

_____

_____

_____ [2]

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

_____

_____

_____

_____[4]

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

_____

_____

_____

_____[4]

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

_____

_____

_____[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,

_____

_____ [1]

(ii) Droppers,

_____

_____ [1]

(iii) Standards.

_____

_____ [1]

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

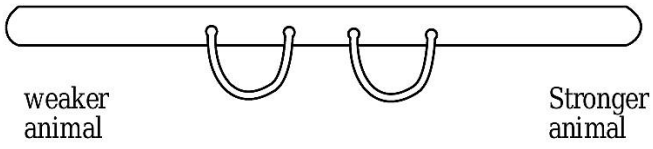
_____

_____

_____ [3]

(c) On the diagram of the yoke, show how trens are adjusted for the two animals. [2]

Animal yoke



(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]

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]

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