| Candidate Name | Centre Number | Candidate Number |
|---|---|---|
| MATHS GUARDIOLA | +447852954215 | |

# ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

**General Certificate of Education Ordinary Level**

## AGRICULTURE 4001/2

PAPER 2

**NOVEMBER 2019 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 | |

**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 9 printed pages and 3 blank 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 **four** importance of land as a natural heritage.

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..... [4]

**(b)** Discuss the steps followed when treating timber.

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..... [4]



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(c) Distinguish between indigenous hardwood and exotic softwood.

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..... [2]

2 (a) List any **two** sources of irrigation water.

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..... [2]

(b) State any **three** ways of improving soil structure.

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..... [3]

(c) Explain the importance of soil water.

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..... [3]

(d) Distinguish between gravitational and capillary water.

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..... [2]



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3 (a) With the aid of a diagram, show the recommended dimensions of a contour ridge.

[4]

(b) Explain how a contour ridge reduces soil erosion in arable land.

[3]

(c) State any **three** factors that affect the choice of an irrigation system.

[3]

4 (a) State any **four** advantages of asexual propagation.

[4]



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(b) Discuss any **three** benefits of weeds.

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..... [3]

(c) Assess the effectiveness of biological pest control.

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..... [3]

5 (a) Identify tools used for the following fencing processes :

(i) straining wire,

..... [1]

(ii) cutting wire.

..... [1]

(b) Outline the routine maintenance of an irrigation pump.

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..... [2]



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(c) Outline the treatment procedure for wooden fencing posts.

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[4]

(d) Distinguish between field capacity and hygroscopic moisture.

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[2]

6 (a) Explain principles of agricultural cooperatives in Zimbabwe.

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[4]



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**(b)** Outline steps in decision making in their correct sequence.

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[4]

**(c)** Explain the importance of farm budgeting.

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[2]



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## SECTION B [40 marks]

*Answer two questions only, one question from each of **Options 1 and 2**.*

### OPTION 1: CROP HUSBANDRY

7 (a) Describe any **five** branches of horticulture. [8]

(b) Discuss why deciduous fruit trees are prunned. [7]

(c) Describe the preparation of a planting hole for a **named** fruit tree. [5]

8 (a) Describe the management of a named cereal crop from germination to maturity. [10]

(b) Discuss the storage of a named legume crop after harvesting. [10]

9 (a) Explain **four** factors considered when selecting a suitable site for an orchard. [10]

b) Examine the marketing strategies employed in cut flowers or fruits in Zimbabwe. [10]



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## OPTION 2: ANIMAL HUSBANDRY

10 (a) Describe the slaughtering and dressing of either **rabbits/layers/indigenous** chickens. [8]

(b) Discuss the importance of hygiene during the slaughtering of the animal in (a). [9]

(c) A live bird weighs **2,5 kg**. After dressing its carcass weighs **2.0 kg**. Calculate the dressing percentage. [3]

11 (a) Describe the nutritional requirements of either a pig or donkey. [10]

(b) Discuss a named bacterial disease of livestock under the following sub-headings:

(i) Name of disease, [1]

(ii) causal agent, [1]

(iii) signs and symptoms, [4]

(iv) prevention and control. [4]

12 (a) Describe characteristics that make exotic breeds of cattle suitable for Zimbabwe. [10]

(b) Discuss natural and artificial acquired immunity. [10]



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