

Candidate Name

Centre Number

Candidate Number

MATHS GUARDIOLA

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ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

AGRICULTURE
PAPER 2

4001/2

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.

[4]

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

[4]

- (c) Distinguish between indigenous hardwood and exotic softwood.

[2]

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

[2]

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

[3]

- (c) Explain the importance of soil water.

[3]

- (d) Distinguish between gravitational and capillary water.

[2]

- 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]

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

[3]

- (c) Assess the effectiveness of biological pest control.

[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.

[2]

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

[4]

(d) Distinguish between field capacity and hygroscopic moisture.

[2]

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

[4]

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

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[4]

(c) Explain the importance of farm budgeting.

[2]

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 pruned. [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]

OPTION 2: ANIMAL HUSBANDRY

- 10 (a) Describe the slaughtering and dressing of either **rabbits/layers/indigenous** chickens. [2]
- (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]