

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

5034/2

NOVEMBER 2014 SESSION

2 hours

Additional materials:
Answer paper

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 **two** questions from any **one** of Options 1, 2, 3 or 4.

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 number of marks is 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.

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Section A

Section B

TOTAL

This question paper consists of 11 printed pages and 1 blank page.

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[Turn over

Section A [70 marks]

Answer all questions in this section.

Candidates are advised to spend approximately 80 minutes on this section.

1 (a) Explain the following terms:

(i) Effective rainfall, _____

[1]

(ii) Relative humidity. _____

[1]

(b) Fig. 1 below illustrates a water cycle. Name the processes labelled A, B and C.

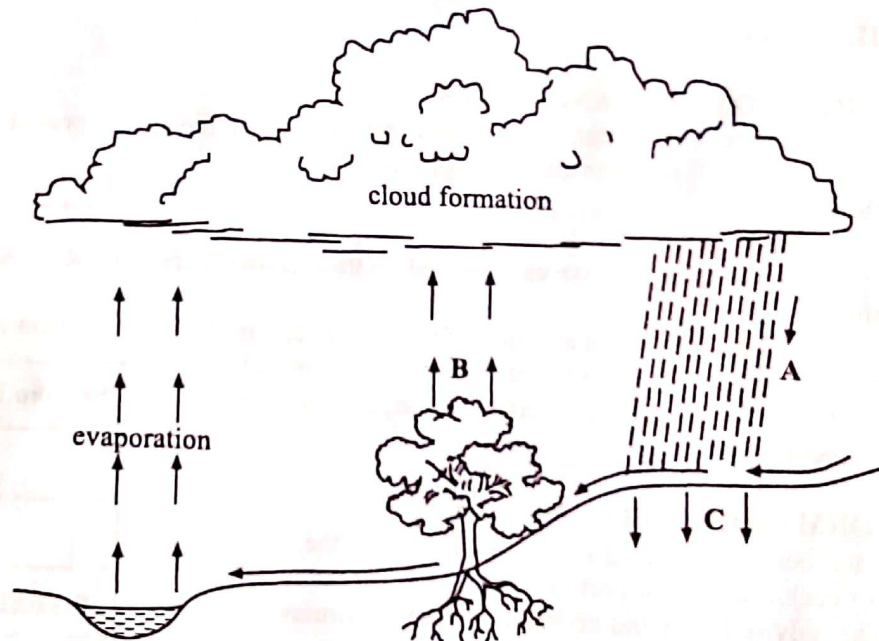


Fig.1

Process; A

_____ [1]

B

_____ [1]

C

_____ [1]

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(c) Explain any three measures that can be used to improve soil temperature.

[3]

3 (a) (i) Ammonium Nitrate contains 34,5% nitrogen. Calculate the amount of nitrogen applied onto a maize crop if it received 400 kg/ha of ammonium nitrate. (show all working).

[3]

(ii) Explain any three reasons why it is important for a farmer to read labels before applying chemicals.

[3]

- (c) Explain any **three** measures that can be used to improve soil temperature.

[3]

- 3 (a) (i) Ammonium Nitrate contains **34,5%** nitrogen. Calculate the amount of nitrogen applied onto a maize crop if it received **400 kg/ha** of ammonium nitrate. (show all working).

[3]

- (ii) Explain any **three** reasons why it is important for a farmer to read labels before applying chemicals.

[3]

- (b) (i) State **three** factors necessary for photosynthesis to take place.

[3]

- (ii) Give any **one** product of photosynthesis.

[1]

- 4 (a) State the functions of the following parts in a male reproductive system:

- (i) Vas deferens, _____

- (ii) Epididymis, _____

- (iii) Semiferous tubules. _____

[3]

- (b) Explain the role of chromosomes in animal reproduction.

[3]

(c) Describe the deficient symptoms of the following minerals in animals.

(i) Phosphorus _____

[2]

(ii) Iron _____

[2]

5 (a) Distinguish **three** differences between the digestive systems of a ruminant and a non ruminant animal.

Ruminant

Non ruminant

[3]

(b) (i) Describe any **four** factors which should be considered when selecting a male animal for breeding.

[4]

- (ii) Explain **three** reasons for the practice of nail clipping in rabbits or debeaking in layers.

Name of Practice: _____

Reasons: _____

[3]

- 6 (a) Describe the major stages involved in fence construction.

[3]

- (b) Explain routine maintenance of a groundnut or maize sheller.

[3]

- (c) A farmer intends to fence 2 km of land with barbed wire. The distance apart for straining posts is 400 m and standards is 16 m.

Calculate the number of straining posts and standards required to fence the area. Show your working.

- (i) straining posts _____

[2]

- (ii) standards _____

[2]

- 7 (a) State any **three** factors to consider when making a decision on a farming enterprise.

[3]

- (b) Explain the importance of preparing budgets in farming.

[3]

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- (c) Discuss the problems associated with marketing of agricultural products in Zimbabwe.

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[4]

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Section B [30 marks]

Answer any two questions only from any one of Options 1, 2, 3 or 4.

OPTION 1: CROP HUSBANDRY

- 8 (a) For a **named** root or tuber, describe a suitable land for sowing the crop. [8]
- (b) Describe how a planter operates. [7]
- 9 (a) Discuss the advantages of conservation tillage. [10]
- (b) Describe the biological methods of controlling weeds. [5]
- 10 (a) Explain any **four** management practices carried out in a named legume crop before harvesting. [8]
- (b) Describe cultural ways of preventing pests and diseases. [7]

OPTION 2: LIVESTOCK HUSBANDRY

- 11 (a) Describe a **two** host tick under the following headings:
- (i) life cycle, [9]
- (ii) control. [2]
- (b) Explain the following terms:
- (i) production ration, [2]
- (ii) maintenance ration. [2]
- 12 Discuss a **named** non-ruminant animal under:
- (a) Management from birth to weaning. [10]
- (b) Types of records kept for the named animal. [5]
- 13 (a) Describe signs and symptoms of a **named** bacterial disease of a ruminant animal. [5]
- (b) Discuss measures taken by government to prevent the outbreak of notifiable diseases. [10]

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