Candidate Name

MATHS GUARDIOLA

Centre Number: +447852954215

Candidate Number:

ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

AGRICULTURE

PAPER 2

5034/2

NOVEMBER 2016 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.

FOR EXAMINER'S USE	
Section A	
Section B	
TOTAL	

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Section A [70 marks]

Answer **all** questions in this section.

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

1 (a) Describe agricultural activities in Natural Regions *II* and *IV*.

Region II

[3]

Region IV

[3]

(b) (i) Distinguish the following land tenure systems: free hold and lease hold.

[1]

(ii) Describe economic values of wild life.

[3]

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2 (a) Explain the importance of top soil in a soil profile.

[4]

(b) State any **three** soil forming factors.

[3]

(c) Explain the significance of a good soil texture in plant growth.

[3]

3 (a) Describe how leaves are adapted to the process of photosynthesis.

[3]

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(b) Compare asexual and sexual reproduction in crop production.

[4]

(c) Illustrate how a single hybrid is produced.

[3]

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4 (a) **Fig. 1** below illustrates a female reproductive system of a farm animal.

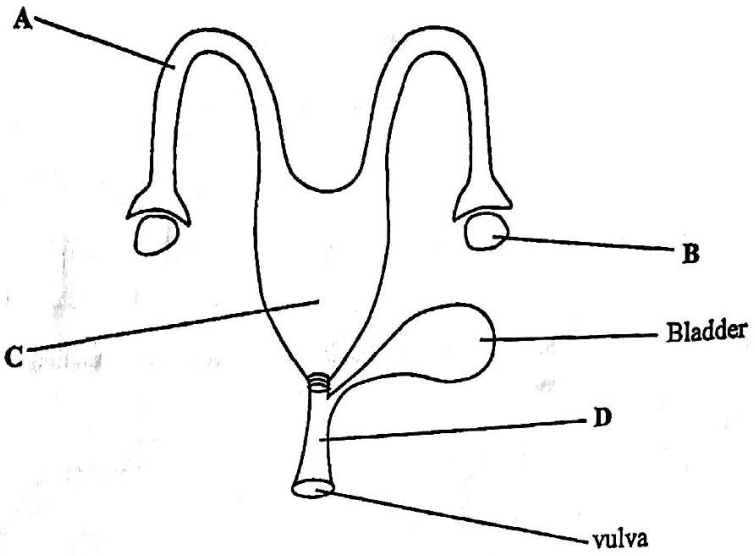


Fig. 1

(i) Name the parts labelled

B _____ [1]

D _____ [1]

(ii) State the functions of the parts labelled.

A _____ [1]

C _____ [1]

(b) State **three** advantages of cross breeding in farm animals.

_____

_____

_____

_____

_____

_____ [3]

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(c) (i) Evaluate the use of grass for roofing farm structures.

[3]

(ii) Explain any **two** advantages of using metal standards over wooden standards.

[2]

7 (a) Describe any **three** importances of farm records to the farmer.

[3]

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(b) Define the following terms:

(i) opportunity cost,

_____

_____ [1]

(ii) supply.

_____

_____ [1]

(c) (i) For a named non-ruminant animal product, state any **three** factors that can affect its market demand.

_____

_____

_____ [3]

(ii) With the aid of a well-labelled diagram illustrate the principle of equilibrium price.

[2]

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Section B [30 marks]

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

OPTION I: CROP HUSBANDRY

8 **(a)** For a **named** cash crop, discuss it under the following headings:

(i) climatic requirements, [3]

(ii) soil requirements, [3]

(iii) land preparation. [3]

(b) Explain cultural methods of pest control. [6]

9 **(a)** For a **named** legume crop, describe its cultivation under the following headings:

(i) method of planting, [4]

(ii) signs of maturity. [4]

(b) Discuss the harvesting and marketing of a **named** legume crop. [7]

10 **(a)** Explain the factors that affect germination percentage of a field crop. [4]

(b) **(i)** Discuss the effects of weeds on crops. [6]

(ii) Explain the safety precautions to be followed when using pesticides. [5]

OPTION 2: LIVESTOCK HUSBANDRY

11 **(a)** Describe the advantages of crossbred animals over indigenous breeds. [9]

(b) **(i)** Outline legislation on dipping cattle in Zimbabwe. [2]

(ii) Explain the importance of the dipping legislation you outlined in question **(b)(i)** above. [4]

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12 (a) For a **named** tick borne disease, describe it under the following headings.

(i) name of disease, [1]

(ii) causative agent, [1]

(iii) signs of infection, [3]

(iv) prevention, [3]

(v) treatment. [2]

(b) Explain functions of fats in an animal's body. [5]

13 (a) Discuss a **named** Protozoan disease under the following headings:

(i) name of disease, [1]

(ii) symptoms, [4]

(iii) prevention and treatment. [6]

(b) State **four** advantages of using plunge dip when controlling an external parasite. [4]

OPTION 3: DECORATIVE HORTICULTURE

14 (a) Outline the importance of potted plants. [7]

(b) Explain factors to consider in selecting a suitable site for a flower nursery. [8]

15 Describe the production of a named bedding flower under the following headings:

(a) management of seedlings, [10]

(b) preparation for marketing. [5]

16 (a) Describe the preparation of a bed for planting flowers. [8]

(b) Explain factors affecting the choice of a flower to buy. [7]

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OPTION 4: WILDLIFE MANAGEMENT

17 (a) Explain what happens when organisms have adapted to their environment. [6]

(b) Discuss factors to consider when setting quotas in wildlife management. [9]

18 (a) Describe, with reasons, why wild animals are translocated from one area to another. [10]

(b) Explain the different methods of marketing wild life products. [5]

19 (a) Explain the grazing behaviour of a **named** mammal. [6]

(b) Discuss factors considered before harvesting wildlife. [9]

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