

Candidate Name

Centre Number

Candidate Number

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# ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

## AGRICULTURE

4001/2

PAPER 2

NOVEMBER 2018 SESSION

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 10 printed pages and 2 blank pages.

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[Turn over

## Section A [60 marks]

*Answer all questions in this section.*

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

- 1 (a) Outline **four** major farming activities practised in Agro-ecological Region I.

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[4]

- (b) Explain why it is not advisable for a farmer to practice dryland farming in Agro-ecological Region V.

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[2]

- (c) Explain **two** reasons why deforestation is of major concern to a farmer.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_ [2]

- (d) Give the difference between rainfall distribution and rainfall intensity.

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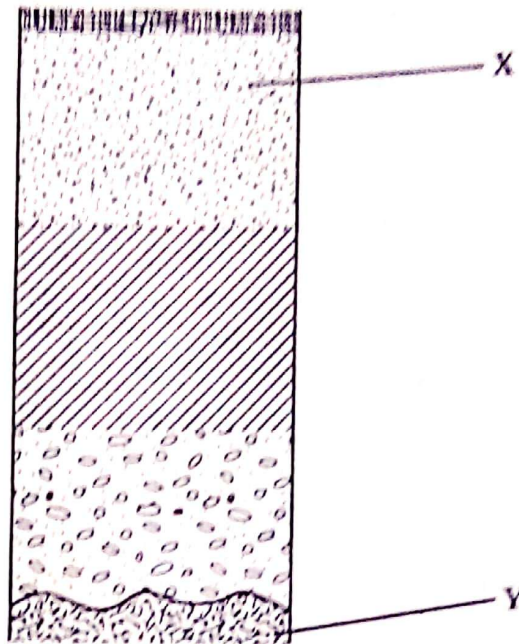
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[2]

2

- (a) The diagram below shows different layers of a soil profile.

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- (i) Name the layers labelled X and Y.

X \_\_\_\_\_

Y \_\_\_\_\_ [2]

- (ii) Name two environmental factors that cause damage to horizon X.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

- (b) Identify the soil particle sizes given in the table below.

	Particle size	Soil type
(i)	2 to 0,2 mm	
(ii)	0,02 to 0,002 mm	

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[2]

[Turn over]



- (c) (i) State three types of water found in the soil.

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[3]

- (ii) Define the term field capacity.

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[1]

- 3 (a) Explain **two** methods used by a farmer to reduce effects of extreme soil temperatures.

(i) 

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(ii) 

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[2]

- (b) Describe **one** soil sampling method.

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[4]

(c) List four causes of land degradation.

(i) \_\_\_\_\_

\_\_\_\_\_

(ii) \_\_\_\_\_

\_\_\_\_\_

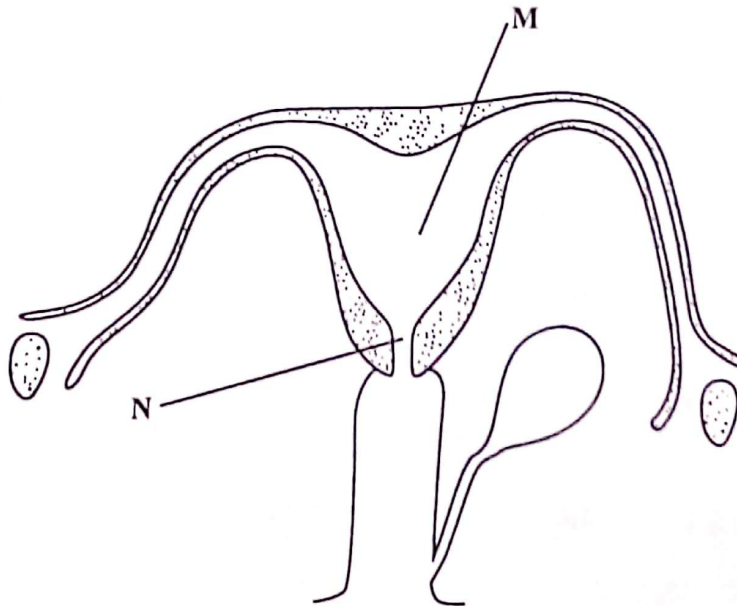
(iii) \_\_\_\_\_

\_\_\_\_\_

(iv) \_\_\_\_\_

\_\_\_\_\_ [4]

4 (a) The diagram below shows the reproductive system of a cow.



(i) Name the structures labelled M and N.

M \_\_\_\_\_, [1]

N \_\_\_\_\_, [1]

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(ii) Where does fertilisation take place?

\_\_\_\_\_  
\_\_\_\_\_ [1]

(iii) Name the part where sperms are deposited during mating.

\_\_\_\_\_  
\_\_\_\_\_ [1]

(b) Explain the function of the following animal nutrients:

(i) carbohydrates \_\_\_\_\_ [1]

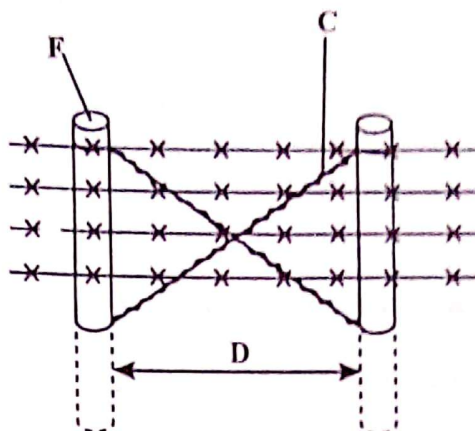
(ii) proteins \_\_\_\_\_ [1]

(iii) calcium \_\_\_\_\_ [1]

(c) Describe **three** factors that affect feed intake of a farm animal.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [3]

- 5 (a) The diagram below shows a structure used in fencing.



Name the parts labelled C and F.

(i) C \_\_\_\_\_

\_\_\_\_\_

(ii) F \_\_\_\_\_

\_\_\_\_\_

[2]

(iii) State the distance marked D.

\_\_\_\_\_

\_\_\_\_\_

[1]

(iv) How many strands of wire are optimum for a boundary fence?

\_\_\_\_\_

\_\_\_\_\_

[1]

(b) State **three** types of fences constructed to control movement of livestock.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_ [3]

(c) Give the functions of the following tools used in farm road siting:

- (i) dumpy level \_\_\_\_\_  
\_\_\_\_\_
- (ii) tape measure \_\_\_\_\_  
\_\_\_\_\_
- (iii) a hammer \_\_\_\_\_  
\_\_\_\_\_ [3]

6 (a) State **three** factors of production on a farm.

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_ [3]

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- (b) Describe **three** factors affecting agricultural marketing.

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[3]

- (c) Explain **four** principles of an agricultural cooperative.

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[4]

## Section B [40 marks]

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

## OPTION 1: CROP HUSBANDRY

- 7 Discuss a **named** legume crop under the following headings:
- (a) signs of maturity, [6]
  - (b) method of harvesting, [7]
  - (c) storage for marketing. [7]
- 8 Describe the management of a **named** cereal crop from land preparation to crop maturity. [20]
- 9 (a) Outline benefits of Integrated Pest Management (IPM). [10]
- (b) Discuss safety and health measures in the use of agrochemicals. [10]

## OPTION 2: LIVESTOCK HUSBANDRY

- 10 (a) Describe the important features of a selected type of an animal dip. [15]
- (b) Outline factors considered when selecting a site for the construction of an animal dip. [5]
- 11 (a) Describe the rearing of a **named** non-ruminant animal from birth to weaning. [16]
- (b) Explain the importance of creep feeding in the rearing of a young non-ruminant animal. [4]
- 12 (a) Analyse factors considered when designing a housing unit for a young ruminant animal. [10]
- (b) Discuss reasons for practicing artificial insemination. [10]