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# ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

## **AGRICULTURE**

5034/2

PAPER 2

**NOVEMBER 2017 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 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 EXAMINE	R'S USE
Section A	
Section B	
5 1	
TOTAL	

This question paper consists of 15 printed pages and 1 blank page.

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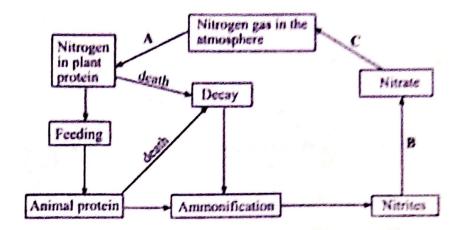
## Section A [70 marks]

For Examiner's Use

Answer all questions in this section.

andidates a	are advised to spend approximately 80 minutes on this section.		
(a)	State four reasons why forests are important in Zimbabwe.		
	(i) <u></u>		
	(ii)		
	(iii)		
	(iv)		
(b)	State three factors affecting the breeding of wild life.	(O)(V	
. Pp. urbs	(i)	- 11 ·	
	(ii)		
	(iii)	[3]	
(c)	State three forms of land use in Zimbabwe.		
	(i)	10 1	
	(ii)	_	
	(iii)	[3]	

### 2 (a) The diagram below describes the nitrogen cycle.



(i)	With reference to the above diagram of the nitrogen cycle	ė,
	explain the processes A, B, and C.	

A	
В	
C	13

(ii)	State the ba	acteria responsible for the processes B and C.	
	Process B.		
	Process C.		[2]

(b)	List three processes through which nitrogen is lost from the
	soil.

<b>(i)</b>	
(ii)	
(iii)	

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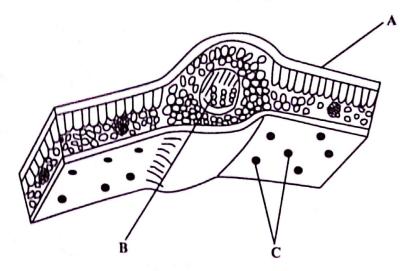
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[3]

	(c)		ribe the deficiency symptoms of the following nutrients in a al crop:	
		(i)	Boron	
			*	[1]
		(ii)	Molybdenum	
			•	[1]
3	(a)		following are signs of deficiency of nutrients in plants. State utrient associated with the symptoms:	
		(i)	yellowing of leaves,	
		(ii)	Poor root system,	
		(iii)	Poor grain or tuber formation	[3]
	(b)	State	one disease of maize caused by each of the following:	
		(i)	bacteria,	
		(ii)	fungi,	
		(iii)	virus	(2)

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For Examiner's Use (e) The diagram below illustrates a vertical section through a leaf.

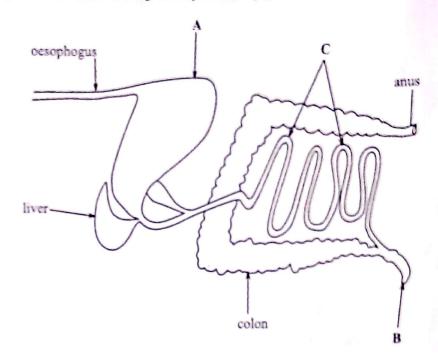


one function of Part	C.

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The diagram below shows the digestive system of a pig-



- (a) With reference to the above diagram of the digestive system of a pig, label parts A, B and C.
  - (i) A \_\_\_\_\_
  - (ii) B
  - (iii) C \_\_\_\_\_\_[3]
- (b) Explain the functions of the parts labelled B and C.
  - (i) B \_\_\_\_\_
  - (ii) C \_\_\_\_\_
    - \_\_\_\_\_[2]

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Expla	in the following terms used in animal nutrition:	
<b>(i)</b>	maintenance ration	
		[1]
(ii)	production ration	
		[1]
Cina	three factors that may affect the intake of food by a farm	
anim	al.	
anim (i)	al.	
anim	al.	
anim	al.	
anim (i) (ii)	al.	[3]

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				-	
				4)	
	11/11/11		79 11 19		
				[4	1
					,
Explain any the production.	ree advantages of cros	ss breeding in	animal		
production.	ree advantages of cros				
production.					[3]

		- 274					_	
							[2]	
(a)	Explain th	e functions on of a farm	of <b>four</b> n				[3]	
(a)	Explain the constructi	e functions on of a farm	of <b>four</b> n		quired in th	e	- -	
(a)	Explain the	e functions on of a farm	of four n	naterials rec	quired in th	e	- 7	
(a)	Explain the constructi	e functions on of a farm	of four n	naterials rec	quired in th	e	- 7	
(a)	Explain the construction (i)	e functions on of a farm	of four n	naterials rec	quired in th	e	- 7	
(a)	Explain the construction (i)	e functions on of a farm	of four n	naterials rec	quired in th	e		
(a)	Explain the construction (i)	e functions on of a farm	of four n	naterials rec	quired in th	e	- 7	

17 mg (1 mg)	
	(2)
	[3]
	[3]
	[3]
Discuss three factors considered when selecting a live	[3]
Discuss three factors considered when selecting a live	[3]
Discuss three factors considered when selecting a live	[3]
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Discuss three factors considered when selecting a live	[3]
Discuss three factors considered when selecting a live	[3]
Discuss three factors considered when selecting a live	[3]

(a)		uss three factors considered by a farmer in decision makin	
	-		_
			_
			_
			[3]
(b)	Expla	ain the difference between the following terms used in oulture economics.	[3]
(b)	Explagric	ain the difference between the following terms used in	
(b)	agric	ain the difference between the following terms used in culture economics.	
(b)	agric	ain the difference between the following terms used in sulture economics.  inputs and outputs	
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(b)	agric	ain the difference between the following terms used in culture economics.  inputs and outputs	[2]

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(c)	Give th	ree reasons why a farmer prepares a budget.		
	(i)			
	(ii)			
	(iii)		[3]	

## Section B [30 marks]

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

## OPTION I: CROP HUSBANDRY

8	(a)	Describe five harmful effects of pests on crops.	[5]
	<b>(b)</b>	Explain five cultural methods of controlling crop pests.	[5]
	(c)	Describe the advantages and disadvantages of mechanised methods of harvesting crops.	[5]
9	Desc head	ribe the production of a named <b>root</b> or <b>tuber</b> crop under the followings:	ng
	(a)	Land preparation,	[5]
	(b)	Planting and fertilizer application.	[10]
10	(a)	Explain the economic effects of weeds.	[10]
	(b)	Discuss the advantages of primary tillage to a farmer.	[5]
		OPTION 2: LIVESTOCK HUSBANDRY	
11	(a)	With reference to a <b>named ruminant</b> animal, describe a <b>named</b> bacterial disease under the following headings:	
		(i) cause,	[1]
		(ii) control and prevention.	[6]
	(b)	Discuss why a farmer would prefer a spray race over a plunge dip.	[8]
12	(a)	Describe the life cycle of a two (2) host tick.	[7]
	(b)	Discuss the importance of the Animal Health Act.	[8]

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13	(a)	Discuss the factors considered by a farmer when selecting a young animal for breeding.	<sup>(6)</sup>	
	(b)	Describe the management of a named ruminant animal from birth to weaning.	[9]	
		OPTION 3: DECORATIVE HORTICULTURE		
14	(a)	For a named hedge or shrub, discuss the advantages of asexual propagation.	[8]	
	(b)	Describe the maintenance of a named hedge or shrub.	[7]	
15	(a)	What factors affect the choice of a lawn grass?	[5]	
	(b)	Describe the establishment of a named lawn grass under the following headings:		
		(i) tools used for maintenance,	[5]	
		(ii) fertilizer application.	[5]	
16	Desc headi	ribe the growing of a named bedding flower under the following ings:		
	(a)	weed control,	[5]	
	(b)	disease and pest control,	[5]	
	(c)	preparation for marketing.	[5]	
		OPTION 4: WILDLIFE MANAGEMENT		
17	Descri	ibe how wild animals adapt to their environmental conditions.	[15]	
18	(a)	Discuss the factors that influence the quality of wild life products.		
	(b)	Describe ways of harvesting wild life.	[10]	

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