



BOTSWANA EXAMINATIONS COUNCIL  
PRIMARY SCHOOL LEAVING EXAMINATION

AGRICULTURE

06

Paper 1

October 2013

Marks: 60

Time: 1 Hour 30 Minutes

Candidate's Examination Number:

Centre					Candidate			

INSTRUCTIONS

1. Write your examination number in the space provided above.
2. Answer **ALL** questions.
3. Read all questions carefully before attempting to answer them.
4. Write your answers in the spaces provided on the question paper.

FOR EXAMINER'S USE ONLY

	D1	D2
Section A		
Section B		
Total Marks Scored		



**SECTION A**

**(20 Marks)**

1. List **two** activities that can make the soil to be easily carried away.

.....  
..... (2)

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2. Give names of any **two** breeds of sheep.

.....  
..... (2)

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3. State **two** ways in which you would handle a digging fork to avoid injuries.

.....  
.....  
..... (2)

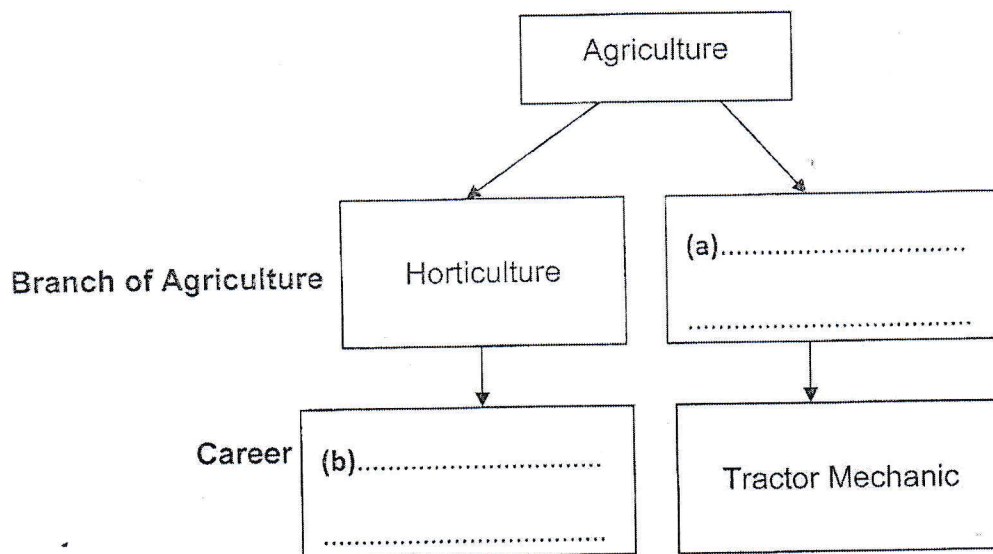
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4. How can you control internal parasites in farm animals?  
Give **two** ways.

.....  
..... (2)

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5. Read the diagram below showing two branches of Agriculture.

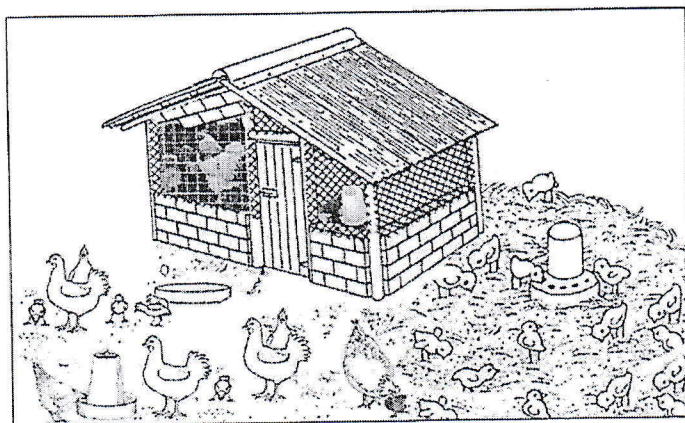


Complete the diagram above by filling in the missing

(a) branch of Agriculture; (1)

(b) career. (1)

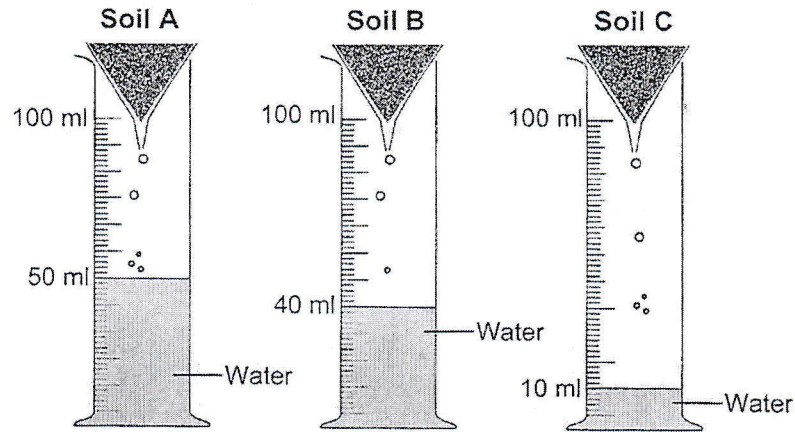
6. Study the picture below showing how chickens were kept by a farmer.



What do you think can make the number of chickens kept outside the livestock house to decrease? State **two** reasons.

.....  
..... (2)

7. The diagrams below show an experiment set up showing what happens when 55 ml of water is poured over three different types of soils.

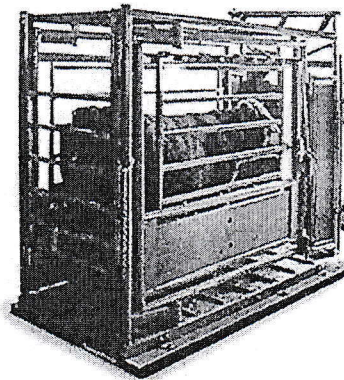


After 10 minutes water was collected as shown.

Why is soil type **B** the best soil for crop production?  
State **two** reasons.

.....  
..... (2)

8. The picture below shows a cattle crush.



Explain how the cattle crush helps farmers when they market their cattle.

.....  
..... (2)

9. The information below was taken from a record that was kept by Mr Basi in October 2012.

Mr Basi bought 10 kg of vegetable seeds on the 11<sup>th</sup> of October. He prepared seedbeds on the 12<sup>th</sup> and planted the seeds on the 13<sup>th</sup>. On the 18<sup>th</sup>, he observed small seedlings coming out.

- (a) Name the type of record kept by Mr Basi.

..... (1)

- (b) Why does Mr Basi keep this type of record?

.....  
..... (1)

- 
10. Why is top soil separated from sub soil when preparing a hole for planting fruit trees? Give **two** reasons.

.....  
..... (2)

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SECTION B

(40 Marks)

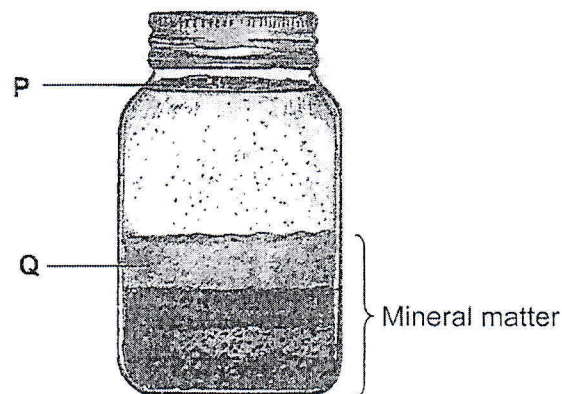
11. Study the picture of a man spraying crops below.



- (a) Name the type of bio-technology shown.  
..... (1)
- (b) Give **two** reasons why crops at X can end up dying.  
.....  
..... (2)
- (c) Describe how crops at X can be improved.  
.....  
..... (2)
-

Use the information and the diagram below to answer questions 12 (a) to (c).

A student placed a dry soil sample in a bottle. She added some water and then closed the bottle with a lid. She shook the bottle and allowed the mixture to settle for about 20 minutes. The diagram below shows the results.



12. (a) What is soil constituent **P**?  
..... (1)
- (b) Name the soil separate labelled **Q**.  
..... (1)
- (c) State **two** characteristics of soil separate **Q**.  
.....  
.....  
..... (2)
- (d) What percentage of the soil is mineral matter?  
..... (1)
-

13. Study the picture of domestic animals shown below carefully.



- (a) Give **two** reasons for keeping the animals shown.  
.....  
..... (2)
- (b) Why is it important to have a herdsman looking after the animals?  
Give **two** reasons.  
.....  
..... (2)
- (c) Why is it difficult to control breeding in this type of farming?  
..... (1)
- 

14. (a) What is the name given to vegetables that grow naturally in an area?  
..... (1)
- (b) Give **two** examples of vegetables that grow naturally in Botswana.  
..... (2)
- (c) State **two** nutritional values of vegetables.  
.....  
..... (2)
- 

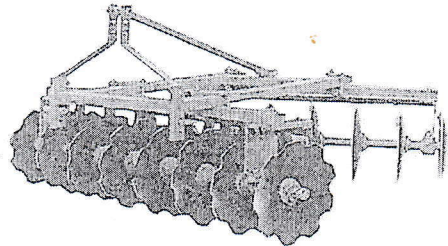
Fig 14.1 - 1

15. Read the information below.

The soil in a garden has good drainage and retains water well.

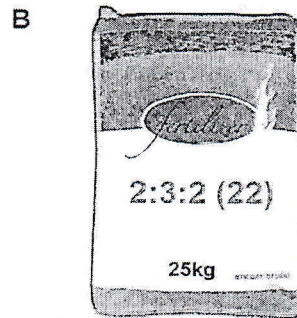
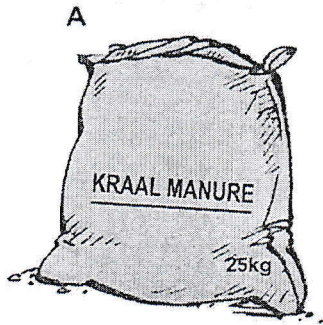
- (a) Name the type of soil structure found in the garden.  
..... (1)
- (b) Explain **two** activities that can destroy this type of soil structure.  
.....  
.....  
.....  
..... (4)

16. The picture below shows a harrow.



- (a) Give **three** problems caused by the use of the harrow on the environment.  
.....  
.....  
..... (3)
- (b) State **one** solution to any of the problems stated in 16 (a) and explain how it will help solve the problem.  
.....  
..... (2)

17. The pictures below show two types of fertilizers labelled A and B.



(a) What type of fertilizers are **A** and **B**?

**A** .....

**B** ..... (2)

(b) Give **three** differences between fertilizers **A** and **B**.  
Write your answers in the table below.

Fertilizer A	Fertilizer B
1.	
2.	
3.	

(3)

Use the information below to answer question 18 (a) and (b).

A student planted a banana tree, a grape tree, a velvet raisin tree and a snot apple tree.

18. (a) How many exotic fruit trees did the student plant?  
..... (1)
- (b) Name **two** management activities that a student will carry out after planting the exotic fruit trees.  
.....  
.....  
..... (2)
- (c) State **two** disadvantages of planting indigenous trees.  
.....  
..... (2)
-