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**BOTSWANA EXAMINATIONS COUNCIL
PRIMARY SCHOOL LEAVING EXAMINATION**

AGRICULTURE

06

Paper 1

October 2011

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

Section A	
Section B	
Total Marks Scored	



051354

This question paper contains 9 printed pages.

SECTION A

(20 Marks)

Full
Examinee
Use

Answer all questions.

1. ✓ Which branch of agriculture does a farmer who grows beetroots and oranges fall under?

..... (1)

2. ✓ State **two** types of fertilizers.

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

3. ✓ State any **two** advantages of protecting wild animals.

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

4. ✓ Give **two** practices that can make the soil to be carried away easily.

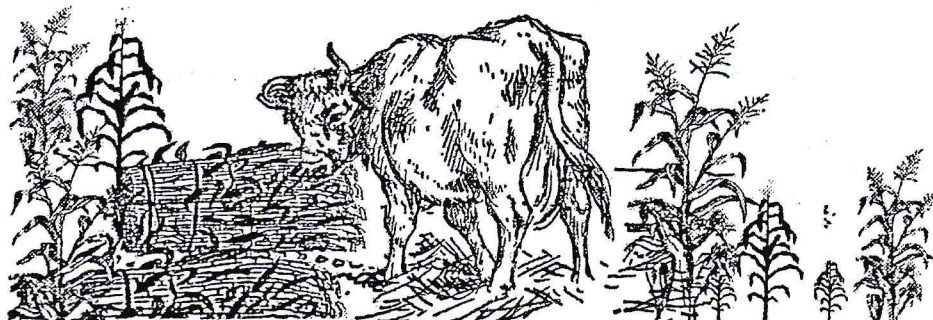
.....
..... (2)

5. ✓ Complete the table below by giving **one** internal and **one** external parasite of farm animals.

Internal parasite	External parasite

(2)

The diagram below shows a farm animal feeding on crop remains. Use it to answer question 6.



6. Give **two** advantages of the farming system shown above.

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

7. Which tool can be used to transplant vegetable seedlings to their final place of growth?

..... (1)

8. Complete the table below by naming **one** field crop and stating its spacing requirements.

Field crop	Spacing requirements

(2)

9. State **two** reasons for avoiding clay soils when choosing a vegetable garden site.

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

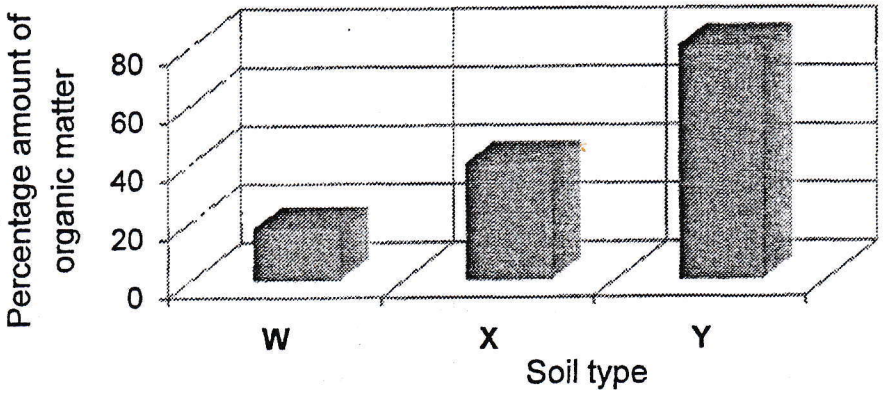
17. (a) Name **three** traditional bio-technology products.

.....
..... (3)

(b) Describe how any **two** traditional bio-technology products are produced.

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

Below is a graph showing the percentage amount of organic matter contained in soil types W, X and Y. Use it to answer question 18.



18. (a) Which soil type will be easily waterlogged?

..... (1)

(b) Name the soil types represented by letters **W** and **Y**.

W

Y (2)

(c) The soil type represented by letter **X** has a moderate amount of organic matter. Give **two** other characteristics of soil type **X**.

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

19. (a) Draw a livestock house showing a footbath.

(2)

(b) Describe the footbath of a livestock house.

.....

.....

(2)

(c) State how the footbath prevents people from bringing disease causing organisms into the house.

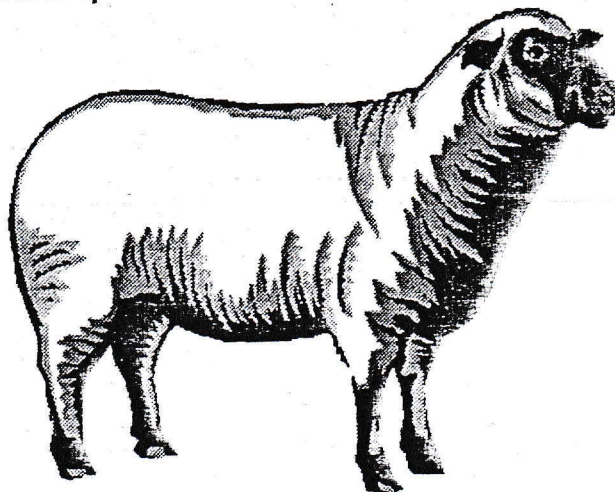
.....

(1)

10. Why is it **not** necessary for a mixed farmer to frequently add organic fertilizer to his soil? Give **one** reason.

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

The diagram below shows a domestic animal.
Use it to answer question 11.



11. Give **three** ways in which the animal is important to Botswana.

.....
.....
..... (3)

SECTION B

(40 Marks)

Answer all questions.

12. With the aid of a well-labelled diagram, describe a soil profile which is suitable for growing a root vegetable.

Diagram

(3)

Description

.....

..... (2)

Use the diagram of a farm tool shown below to answer question 13.



13. (a) Name the tool.
..... (1)

- (b) State **two** uses of the tool.
.....
..... (2)

- (c) Why should the tool be kept facing down?
..... (1)

- (d) Which implement can be used in the same way as the tool shown to perform a similar task in large fields?
..... (1)

14. ✓(a) Name **one** biological method of controlling pests in vegetable crops.
..... (1)

✓(b) Describe the biological method of controlling pests named in 14 (a).
.....
.....
..... (2)

✓(c) State **two** advantages of any biological method of controlling pests.
.....
..... (2)

15. ✗(a) Name **two** chicken breeds that are reared in Botswana.
.....
..... (2)

(b) State **two** uses of any chicken breed.
Breed
Uses
.....
..... (2)

Use the information below to answer question 16.

Mr Yoni owns a 2.5 hectare farm. He used 20 kg of maize seeds on this piece of land to produce food for his family.

16. (a) Which type of record is used to keep the information given above?
..... (1)
- (b) (i) Which system of farming is practiced by Mr Yoni?
..... (1)
- (ii) State **two** advantages of the system of farming practiced by Mr Yoni.
.....
..... (2)
- (c) How many kilograms of seeds did Mr Yoni use in one hectare?
Show your calculations below.

(2)