

Name .....Centre No.....

Sign .....

**527/1**

***Principles and practices of***

***Agriculture***

***(Theory)***

***Paper 1***

***2 hours***

**RESOURCEFUL MOCKS 2019**  
**Uganda Certificate of Education**  
**PRINCIPLES OF AGRICULTURE**

**(Theory)**

**PAPER 1**

**TIME: 2 ½ HOURS**

**(Do not write your school / centre Name or Number any where on this booklet.)**

***INSTRUCTIONS:***

This paper consists of parts A and B. Answer all questions in part A and four questions in part B including at least one question from each section.

FOR EXAMINERS' USE ONLY		
Part / question	Marks	Examiners signature
A		
B NO		
NO		
NO		
NO		
TOTAL		

**PART A (20 MARKS)**

Answer all questions in this part. For question 1, write the letter corresponding to the best answer in the box provided. For questions 2 to 5, write all answers in the spaces provided.

1. a) One main function of manure in soil and water conservation is to:

- A. Encourage fast crop growth
- B. Increase fast crop growth.
- C. Hold soil practices together.
- D. Provide firm over on the soil surface.

b) In fencing the posts that are located at the corner are called.

- A. Strainers
- B. Standards
- C. Struts
- D. Droppers

c) Which one of the following is a liability?

- A. Debt receivable
- B. Opening evaluation
- C. Closing evaluation
- D. Bank draft

d) What is the importance of creep area in a piggery unit?

- A. to feed litter while in a house
- B. to protect litter from being crushed by the mother.
- C. to prevent piglet anaemia from piglet.
- D. to encourage proper growth of piglets and their mother.

2. a) Mention any four types of soil erosion

- i) .....
- ii) .....
- iii) .....
- iv) .....

(2 marks)

b) State six effects of soil erosion

- i) .....
- ii) .....
- iii) .....
- iv) .....
- v) .....
- vi) .....

(3 marks)

3. a) What is meant by equilibrium price?

.....  
.....

(1 mark)

b) State four ways in which prices of agricultural products are determined.

- i) .....
- ii) .....
- iii) .....
- iv) .....

(2 marks)

4. a) Outline four challenges of rearing Exotic cattle.

- i) .....
- ii) .....
- iii) .....
- iv) .....

(2 marks)

b) Mention the creation for identifying a good stock man.

- i) .....
- ii) .....
- iii) .....
- iv) .....
- v) .....
- vi) .....

(3 marks)

5. a) State six ways of ensuring effectiveness in Dipping cattle.

- i) .....
- ii) .....
- iii) .....
- iv) .....
- v) .....
- vi) .....

(3 marks)

b) Mention 4 (four) features of a good cattle DIP.

- i) .....
- ii) .....
- iii) .....

- iv) ..... 2 marks

## **PART B (80 MARKS)**

Answer **four** questions from this part including at least **one** question from each section. Additional question answered will NOT be marked. Write your answers in the answer booklets provided.

### **SECTION 1**

#### **MECHANISATION AND FARM MANAGEMENT**

6. a) What is the importance of carrying out land cultivation before planting crops? (08 marks).  
b) What are the advantages of using a disc plough in land cultivation? (08 marks)  
c) Outline the maintenance practices that should be carried out on a disc plough. (04 marks)
7. a) Describe the methods of preserving wood. (10 marks)  
b) Give the advantages and limitations of using metal to construct farm buildings. (10 marks)
8. a) State the causes of low food production in Uganda. (10 marks)  
b) Explain how agricultural research centers in Uganda have contributed to increased food production. (10 marks)

#### **SECTION 11 CROP PRODUCTION.**

9. a) Using a diagram, describe how carbon dioxide is used by organisms and recycled in the environment. (12 marks)  
b) What is the importance of Humus in the soil? (08 marks)
10. a) Outline the economic uses of Bananas. (05 marks)  
b) Describe the field practices involved in banana growing. (10 marks)  
c) Suggest ways of controlling banana weevil. (05 marks)
11. a) Why is couch grass a difficult weed to control? (6 marks)  
b) Explain the cultural methods of weed control. (14 marks)

#### **SECTION III ANIMAL PRODUCTION**

12. a) Explain the benefits of rearing Exotic breeds of poultry. (08 marks)  
b) Give the reasons for carrying out each of the following in poultry birds.  
i) Culling (06 marks)  
ii) Debeaking (06 marks)
13. a) Describe the chemical method of dehorning a calf. (08 marks)  
b) Give reasons for carrying out the following livestock management practices.  
i) Steaming up (04 marks)  
ii) Drying off (04 marks)  
iii) Castration (04 marks)
14. a) Explain measures a farmer could take to ensure availability of live stock feeds throughout the year. (14 marks)  
b) Outline the considerations to take while formulating feed rations for farm animals.

(7 marks)

***END***