

527/1
**PRINCIPLES
AND PRACTICES
OF AGRICULTURE
(Theory)**

Paper 1

Jul/Aug 2019

2 ½ Hours



MUKONO EXAMINATION COUNCIL

Uganda Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

(Theory)

Paper 1

2 Hours 30 Minutes

INSTRUCTIONS TO CANDIDATES

This paper consists of part A and B

*Answer only **all** questions in part A and **four** questions from part B choosing at least **one** question from each section.*

*Additional question(s) will **not** be marked.*

For Examiner's use only		
	Marks	Examiner's No and 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 question 2 to 5, write all answers in the space provided.

1. (a) Which one of the following would not be a suitable method for controlling soil erosion on a steep slope?

- A. Terracing
- B. Crop rotation
- C. Afforestation
- D. Strip cropping

- (b) For what reason is “hardening off” usually practiced?

- A. To accelerate seedling’s growth
- B. To acclimatize seedlings to field conditions.
- C. To influence proper drying of seedlings.
- D. To improve on the rooting system.

- (c) Which one of the following livestock diseases is caused by Virus?

- A. Black quarter
- B. Anthrax
- C. Salmonellosis
- D. Rinder pest

- (d) Which of the following is a live fence?

- A. Wooden fence
- B. Barbed wire fence
- C. Hedge
- D. Wire fence.

2. Give four ways in which prices of products are determined in a market. **(4 marks)**

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3. Give five advantages of early planting in crop production. **(5 marks)**

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4. Give four signs of heat in a sow. **(4 marks)**

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5. Give five ways of increasing tyre traction in a tractor. **(5 marks)**

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PART B (80 MARKS)

Answer four questions including atleast one question from each section. Write your answer in the answer booklets provided.

SECTION 1

MECHANISATION AND FARM MANAGEMENT

6. (a) Explain factors which affect supply of agricultural products. **(12 marks)**

- (b) How can marketing of agricultural produce be improved? **(08 marks)**

7. (a) Define wood seasoning. **(02 marks)**

- (b) Explain the procedure of seasoning timber by air. **(10 marks)**
- (c) Suggests the advantages of Using wood as a building material. **(08marks)**
8. (a) What is a stroke? **(02 marks)**
- (b) Explain the operation of a four strokes cycle in diesel engines. **(12 marks)**
- (c) Give six advantages of four stroke cycle engine. **(08 marks)**

CROP PRODUCTION

9. (a) Explain the factors that influence the number of soil living organisms in the soil. **(10 marks)**
- (b) Give the importance of soil living organism. **(10 marks)**
10. (a) Outline advantages and disadvantages of using Organic Manure. **(10 marks)**
- (b) Explain the factors that affect the response of crops to fertilizers. **(10 marks)**
11. (a) Outline reasons for carrying out soil sampling. **(08 marks)**
- (b) Describe the procedure of carrying out soil sampling for laboratory analysis. **(12 marks)**

ANIMAL PRODUCTION

12. (a) Outline the effect of diseases in livestock. **(05 marks)**
- (b) Describe the signs of diseases in livestock. **(08 marks)**
- (c) How can disease outbreak in livestock be controlled. **(07 marks)**
13. (a) State the importance of Poultry rearing. **(10 marks)**
- (b) Describe the management practices carried out in a deep litter house. **(10 marks)**
14. (a) Explain the factors that influence feed intake by animals. **(10 marks)**
- (b) Outline the considerations that have to be made in formulation of rations for farm animals. **(10 marks)**

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