**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.*

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| --- | --- | --- |
| **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?
2. Terracing
3. Crop rotation
4. Afforestation
5. Strip cropping

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

1. To accelerate seedling’s growth
2. To acclimatize seedlings to field conditions.
3. To influence proper drying of seedlings.
4. To improve on the rooting system.

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

1. Black quarter
2. Anthrax
3. Salmonellosis
4. Rinder pest

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

1. Wooden fence
2. Barbed wire fence
3. Hedge
4. Wire fence.
5. Give four ways in which prices of products are determined in a market***. (4 marks)***

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

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

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

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**PART B (80 MARKS)**

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

**SECTION 1**

**MECHANISATION AND FARM MANAGEMENT**

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

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

1. (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)***

1. (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**

1. (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)***

1. (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)***

1. (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**

1. (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)***

1. (a) State the importance of Poultry rearing.  ***(10 marks)***

(b) Describe the management practices carried out in a deep litter house. ***(10 marks)***

1. (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)***

***End -***