NAME ………………………………………………………………………………… COMB………………………………………………



P515/2

PRINCIPLES AND PRACTICE

OF AGRICULTURE

Paper 2

 END OF ONE EXAMINATIONS 2024

PRINCIPLES AND PRACTICES OF AGRICULTURE

UGANDA ADVANCED CERTIFICATE OF EDUCATION

P515/2 THEORY

TIME: 2:30minutes

**INSTRUCTIONS TO CANDIDATES***:*

* *Answer question ONE in Section A and* ***three*** *Questions selecting at least one (1) Question from sections B, C, D*
* *Any additional questions will not be marked*

|  |
| --- |
| **For Examiner’s use only**  |
|  | **Marks**  | **Examiner’s No and Signature** |
| A |  |  |
| B: No. |  |  |
|  No. |  |  |
|  No. |  |  |
| TOTAL  |  |  |

Please turn over

**SECTION A: COMPULSORY**

1. The table below shows the yield of maize in kilograms per acre after top dressing different rates of fertilizers on one hectare of land.

|  |  |
| --- | --- |
| **Quantity of****fertilizer (kilograms) (X)** | **Total maize****output (kilograms)(Y)** |
| 0 | 400 |
| 50 | 590 |
| 100 | 710 |
| 150 | 830 |
| 200 | 880 |
| 250 | 890 |
| 300 | 820 |

1. Using a suitable scale, represent the above information on a graph. (08 marks)
2. Describe the trend observed in your graph (02 marks)
3. Calculate average quantity of the fertilizer used in the production of maize for

all seasons. (03 marks)

1. Apart from fertilizer application, describe other ways through which a farmer

can increase maize yields. (07 marks)

**SECTION B: CROP PRODUCTION**

2. (a) Outline the roles of living organisms in the soil (06 marks)

 (b) Explain the factors that influence the population of living organisms in the soil. (14 marks)

3. (a) Explain the factors that influence the rate of decomposition of organic matter

 (12 marks)

 (b) Outline the properties of organic matter that make it suitable for soil

 improvement. (08 marks)

**SECTION C: ANIMAL PRODUCTION**

4. (a) Describe the importance of livestock industry. (10 marks)

 (b) Outline the problems facing livestock industry in Uganda. (10 marks)

5. (a) Explain the factors considered before establishing a beef herd. (12 marks)

 (b) Outline the characteristics of beef cattle. (08 marks)

**SECTION D: AGRICULTURE ECONOMICS**

6. (a) What is efficiency of labour? (02 marks)

 (b) What factors influence efficiency of labour on the farm? (10 marks)

 (c) Explain the factors that determine labour supply on the farm. (08 marks)

7. (a) Explain the measures that can be taken by government of Uganda to increase

 agricultural production. (10 marks)

 (b) Outline the causes of famine in Uganda. (10 marks)

 **END**