P515/2

**PRINCIPLES AND PRACTICES**

**OF AGRICULTURE**

**PAPER 2**

JULY/AUGUST 2016

3HRS

NTUNGAMO PRIVATE SECONDARY SCHOOLS

JOINT MOCK EXAMINATION

Uganda Advanced Certificate of Education

**PRINCIPLES AND PRACTICES**

**OF AGRICULTURE**

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3HOURS

**INSTRUCTIONS TO CANDIDATES:**

* The paper consists of section A, B, C, D, and E.
* Answer question **1** and **four other** questions selecting one from each section B, C, D, and E.
* Any additional question(s) attempted will not be marked

**SECTION A**

1. An experiment was carried out to test the relative capillarity in various soils

samples represented by curves A, B, C. Study the graph carefully and answer the questions that follow.

C

Water rise

B

A

Time (days)

(a). Describe the trend of water rise in the three soil samples basing on the curves

**3mks**

(b). Explain the causes of differences in water rise in the 3 soil samples. **6mks**

(c). Of what importance is the information in (b) above to the farmer? **2mks**

(d). Explain the factors that influence soil moisture content **9mks**

**SECTION B.**

**Crop production**

2. (a). What is germination efficiency? **2mks**

(b). Explain the factors that affect germination efficiency **71/2mks**

(c). Describe one chemical method of testing for seed viability **111/2mks**

3. (a). Outline the importance of soil living organisms **8mks**

(b).Explain the factors that influence abundance of soil living organisms **12mks**

**SECTION C**

**Animal production**

4. (a). Describe the procedure for insemination using recto vaginal technique. **13mks**

(b). Describe the advantages of using artificial insemination. **8mks**

5. (a). State the considerations when siting a fish pond **6mks**

(b).Describe the procedure for fish pond construction **8mks**

(c). Outline the importance of fish farming **6mks**

**SECTION D**

**Agricultural engineering**

6. (a). Describe the procedure for making good concrete without using machines.

**10mks**

(b). Explain the factors that influence the choice of building materials. **10mks**

7. (a). Outline the types of power used on the farm**. 03mks**

(b). Explain the factors that influence power output in work animals **12mks**

(c). State the characteristics of an animal suitable for work. **05mks**

**SECTION E**

**AGRICULTURE ECONOMICS.**

**8**. (a). Differentiate between labour and labour supply**. 04mks**

(b). Explain the factors that influence labour supply **09mks**

(c). Outline the ways through which labour efficiency can be improved.  **07mks**

9. (a). Distinguish between demand and demand schedule. **02mks**

(b). Consider the demand and supply schedule for milk in a given season

|  |  |  |
| --- | --- | --- |
| Quantity demanded (L) | Price per litre (shs) | Quantity supplied (L) |
| 800 | 1000 | 4000 |
| 1200 | 900 | 3500 |
| 1600 | 800 | 3000 |
| 2000 | 700 | 2000 |
| 2500 | 600 | 1500 |
| 3000 | 500 | 800 |
| 4000 | 400 | 400 |
| 6000 | 300 | 200 |

Plot the information on a graph paper. **06mks**

(c). What is the market condition when price is fixed

(i). Above equilibrium price

(ii) Below equilibrium price **06mks**

(d). Explain the factors that influence prices of agricultural production. **06mks**

**END**