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P515/2 PRINCIPLES AND PRACTICES OF AGRICULTURE PAPER 2 2023 3HRS



## AITEL JOINT MOCK EXAMINATION

## **Uganda Advanced Certificate of Education**

# PRINCIPLES AND PRACTICES OF AGRICULTURE

PAPER2

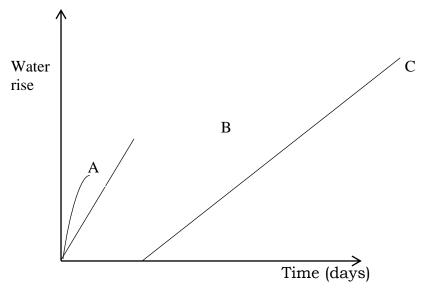
**3HOURS** 

#### **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

An experiment was carried out to test the relative capillarity in various soils samplesrepresented by curves A, B, C. Study the graph carefully and answer the questions that follow.



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

3mks

- 6mks (b). Explain the causes of differences in water rise in the 3 soil samples.
- (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?
- (b). Explain the factors that affect germination efficiency.

(c). Describe one chemical method of testing for seed viability

11<sup>1/2</sup>mks

- 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

(b).Describe the procedure for fish pond construction

(c). Outline the importance of fish farming

8mks 6mks

#### 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**