

Name: ..... Index No.....

School: ..... Signature: .....

527/1  
PRINCIPLES  
AND PRACTICES  
OF AGRICULTURE  
(Theory)  
Paper 1  
July/August 2023  
2½ hours



## WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 1

**THEORY**

2 hours 30 minutes

### INSTRUCTIONS TO CANDIDATES:

- Answer all questions in part A and four questions in part B, choosing at least one question from each of the sections I, II, III of part B.

| FOR EXAMINER'S USE ONLY |       |                   |
|-------------------------|-------|-------------------|
| QUESTIONS               | MARKS | EXAMINER'S NUMBER |
| PART A                  |       |                   |
| PART B; No.             |       |                   |
| No.                     |       |                   |
| No.                     |       |                   |
| No.                     |       |                   |
| <b>TOTAL</b>            |       |                   |

## PART A (20 MARKS)

Answer **all** questions in this part.

Answer all questions in this part. For question 1, write the letter corresponding to the best answer in the box provided. For numbers 2 to 5, write all answers in the spaces provided.

1. (a) Which of the following factors does not influence the supply of a commodity?

A. Cost of transport.  
B. Number of producers.  
C. Technology used in production.  
D. Size of income.

- (b) Which stage of the liver fluke infests the host animal?

A. Adult  
B. Miracidium  
C. Cercaria  
D. Sporocyst

- (c) Why is a DPC necessary during construction of a farm building?

A. To support the building.  
B. To prevent termites from destroying the wall.  
C. To prevent upward movement of water in the wall.  
D. To prevent cracks in the wall.

- (d) Why is couch grass a difficult weed to control?

A. Produce many viable seeds.  
B. Has numerous rhizomes.  
C. It is a hardy weed.  
D. It is a perennial weed.

(02 marks)

2. State the information to be included in a breeding record.

(04 marks)

- (i) .....  
(ii) .....  
(iii) .....  
(iv) .....

3. Give **four** factors considered when selecting ingredients for formulating rations.

(04 marks)

- (i) .....  
(ii) .....  
(iii) .....  
(iv) .....

4. State **five** reasons why farm buildings are important on the farm. (05 marks)
- (i) .....
  - (ii) .....
  - (iii) .....
  - (iv) .....
  - (v) .....
5. Give **five** factors that affect the quality of farm yard manure. (05 marks)
- (i) .....
  - (ii) .....
  - (iii) .....
  - (iv) .....
  - (v) .....

### PART B (80 MARKS)

Answer any **four** questions including **at least one** from each section.

Addition questions answered will **not** be marked.

Write your answers in the answer booklet/sheets provided.

### SECTION I

#### MECHANISATION AND FARM MANAGEMENT

6. (a) State the different market functions. (06 marks)
- (b) Explain the problems faced while marketing agricultural products. (14 marks)
7. (a) State the features of a good spray race. (06 marks)
- (b) What are the advantages and disadvantages of using a spray race? (10 marks)
- (c) How can a spray race be maintained? (04 marks)
8. (a) Outline the components of the water cooling system of a tractor? (06 marks)
- (b) Why is water commonly used as a coolant? (04 marks)
- (c) How can the water cooling system be maintained? (10 marks)



## SECTION II

### CROP PRODUCTION

9. (a) Name five inorganic fertilizers that contain nitrogen used in crop growing. (05 marks)  
(b) State the uses of nitrogen in crop growth. (05 marks)  
(c) Explain the ways in which nitrogen is lost from the soil. (10marks)
10. (a) State the effects of soil erosion on land. (10 marks)  
(b) Explain factors that influence the rate of soil erosion. (10 marks)
11. (a) Why are farmers advised to dry crops before storage? (06 marks)  
(b) How can crop losses be reduced while in storage? (14 marks)

## SECTION III

### ANIMAL PRODUCTION

12. (a) With the aid of a diagram describe how an egg is formed in a hen. (14 marks)  
(b) State the abnormalities that occur during egg formation process. (06 marks)
13. (a) State the reasons for identifying farm animals. (06 marks)  
(b) Describe how the hot iron branding method is used on a calf. (12 marks)  
(c) Outline other methods used in identifying farm animals. (02 marks)
14. (a) What are the effects of diseases in animal production? (08 marks)  
(b) State the ways by which livestock diseases spread. (12 marks)

END