

CANDIDATE'S NAME:

SIGNATURE:

527/1

**PRINCIPLES AND PRACTICES
OF AGRICULTURE (THEORY)**

Paper 1

July/August, 2023

2 1/2 hours



ERETA EDUCATION CONSULTS

JOINT MOCK EXAMINATIONS 2023

Uganda Certificate of Education

**PRINCIPLES AND PRACTICES OF AGRICULTURE
(THEORY)**

PAPER 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES

Answer all Questions in Part A and Four Questions from Part B including at least One Question from each Section

| FOR EXAMINER'S USE ONLY | | | |
|--------------------------------|----------------|--------------|-----------------------------------|
| | Section | marks | Examiner's sign and NO |
| A | No 1-30 | | |
| B | No. 31 | | |
| | No. 32 | | |
| | No.33 | | |
| | No.34 | | |
| | No.35 | | |
| | No.36 | | |
| | No.37 | | |

Turn Over

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 questions 2 to 5, write all answers in the spaces provided.

1. (a) which of the following hormones is responsible for milk let down in lactating animals?

A. Follicle stimulating hormone. B. Oxytocine Hormone.
C. Adrenaline Hormone. D. Oestrogen Hormone

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- (b) The component of an Ox-plough responsible for inverting the farrow slice and covering is known as.....

A. Frog B. Mould board
C. Landside D. Main Beam

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- (c) Which one of the following is NOT true about a good green manure crop?

A. should be leguminous in nature
B. should be fast growing
C. should not easily decompose
D. should not be difficult to plough into the soil

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- (d) Which of the following types of posts in a barbed wire fence maintains spacing and also avoids sagging of the barbed wires?

A. Dropper B. King post
C. Strut D. Ordinary post

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2. (a) State three characteristics of a good hedging material. (3marks)

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- (b) Give two disadvantages of live fence. (2marks)

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3. (a) Define the term rotational grazing. (2marks)

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- (b) State three benefits of rotational grazing. (3marks)

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4. (a) Give four ways through which diseases are spread among crops. (2marks)

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- (b) State two common symptoms of diseases in crops. (2marks)

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5. (a) Give four circumstances under which meat may be condemned for human consumption. (2marks)

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- (b) State two measures of producing high quality meat on a farm. (2marks)

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PART B (80MARKS)

ANSWER FOUR QUESTIONS INCLUDING ATLEAST ONE FROM EACH SECTION. WRITE YOUR ANSWERS IN THE ANSWER BOOKLETS PROVIDED

SECTION I

MECHANISATION AND FARM MANAGEMENT

6. (a) Explain why farmers are encouraged to mechanise farm activities. (9marks)

- (b) Outline ways in which farm mechanisation can be increased. (11mks)

7. (a) Giving examples, explain the role of farm structures in agricultural production. (11marks)

- (b) Outline factors to be considered before locating a farm structure. (9marks)

8. (a) Explain factors to consider before choosing a farming enterprise. (11marks)

- (b) Explain reasons that may cause a farmer to change from one Enterprise to another. (9marks)

SECTION II
CROP PRODUCTION

9. (a) Describe the various methods of fertilizer application. (12marks)
(b) Explain factors that influence the response of a crop to fertilizers. (8marks)
10. (a) Give reasons for carrying out soil sampling in a laboratory. (7mks)
(b) Describe the procedure of carrying out soil sampling in a laboratory. (14marks)
11. (a) Explain the kinds of damages caused by pests on crops. (9mks)
(b) Explain the non-chemical measures of controlling pests on a farm. (11marks)

SECTION III
ANIMAL PRODUCTION

12. (a) Explain factors to consider when selecting a good breed of cattle for dairy purpose. (8marks)
(b) Explain factors to consider when determining the size of a dairy herd. (12marks)
13. (a) Outline the advantages and disadvantages of extensive system of poultry management. (12marks)
(b) How can good quality eggs be produced on the farm? (8marks)
14. (a) Explain factors to consider when formulating animal rations. (9marks)
(b) Outline factors that influence water in-take in farm animals. (11marks)

END