

527/1

Principles and Practices
of Agriculture (Theory)

Paper 1

July - August 2022

2 1/2 Hours



UGANDA MUSLIM TEACHERS' ASSOCIATION

UMTA JOINT MOCK EXAMINATIONS 2022

UGANDA CERTIFICATE OF EDUCATION

NAME.....

INDEX NO.....SIGNATURE.....

PRINCIPLES AND PRACTICES OF AGRICULTURE

PAPER 1

2 HOURS 30 MINUTES

INSTRUCTIONS

Answer **all** questions in **Part A** and **four** questions in **Part B**, choosing at least one question from each section. **I, II and III.**

FOR EXAMINER'S USE ONLY		
Part/question	Marks	Examiner's signature
Part A		
Part B		
No.		
No.		
No.		
No.		
TOTAL		

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 2-5, write all answers in the spaces provided.

1. (a) The aim of animal breeding is to;

- A. Improve animal living condition on a farm.
- B. Create uniformity in farm animals.
- C. Improve the quality and quantity of animal products.
- D. Identify good characteristics in farm animals.

☐

(b) One of the characteristics of sandy soil is that it.

- A. Feels gritty on touching.
- B. Is hard to till when dry.
- C. Contains plenty of nutrients.
- D. Has high capillarity.

☐

(c) Payment for casual labour on a farm is classified as.

- A. an overhead cost
- B. fixed cost
- C. an implicit cost
- D. a variable cost

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(d) Which of the following is not a fencing post?

- A. Strainer
- B. Purlin
- C. Standard
- D. Strut

2. Give four (4) farming practices that can be carried out to replace plant nutrients lost from the soil. (4 marks)

(4 marks)

i.

ii.

iii.

iv.

3. Describe five (5) signs of calving down in a cow. (5 marks)

(5 marks)

i.

ii.

iii.

iv.

v.

4. Outline five (5) factors to consider when selecting the type of materials to use to construct a farm building. (5 marks)

(5 marks)

i.

ii.

iii.

iv.

v.

5. (a) What is meant by opportunity cost as used in agricultural production? (1 mark)

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.....

- (b) Give three conditions where opportunity cost is zero. (3 marks)

- i.
ii.
iii.

PART B

Answer four questions including at least one from each section. Write all your answers in the answer booklets provided.

SECTION I

MECHANISATION AND FARM MANAGEMENT

6. (a) State the causes of water shortage on a farm. (4 marks)
- (b) Explain how farmers may fight water shortage. (12 marks)
- (c) What are the effects of excess water on a farm? (4 marks)
7. (a) Explain why a farmer may change from a crop growing enterprise to live stock enterprise. (12 marks)
- (b) How can a farmer ensure efficient use of labour on a farm? (8 marks)
8. (a) Explain factors that have encouraged the continued use of hand tools in agricultural production. (12 marks)
- (b) How can farmers be encouraged to mechanize their farm activities? (08 marks)

SECTION II

CROP PRODUCTION

9. (a) What factors affect the distribution of perennial crops in Uganda? (14 marks)
- (b) Explain challenges faced when growing perennial crops. (06 marks)
10. (a) State the effects of soil erosion in farming. (08 marks)
- (b) Using illustrations, describe the following mechanical methods of soil erosion Control (12 marks)
- (i) Bunds.
 - (ii) Terracing.
 - (iii) Contour ploughing.
 - (iv) Diversion channels.
11. (a) Describe the characteristics of a pasture that requires improvement. (10 marks)
- (b) Discuss the advantages and disadvantages of zero grazing in cattle production. (10 marks)

SECTION III

ANIMAL PRODUCTION

12. (a) Explain the benefits of rearing indigenous cattle. (10 marks)
- (b) How would you ensure the production of high quality meat? (10 marks)
13. (a) Describe the procedures for preparing hides and skins for sale. (10 marks)
- (b) Suggest ways of improving the marketing of hides and skins in Uganda. (10 marks)

14. (a) State factors to be considered before vaccinating birds in a poultry house. (5 marks)

(b) What care must be taken when vaccinating birds to ensure effectiveness?

(15 marks)

END