

Name: Index No.

School: Signature:

527/1
PRINCIPLES
AND PRACTICES
OF AGRICULTURE
(Theory)
Paper 1
July/August 2018
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.		
TOTAL		

PART A: 20 MARKS

Answer **all** questions in this part.

For question 1, write the letter corresponding to the correct answer in the box on the right.

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

1. (a) Which of the following atomises diesel for easy mixing with compressed air in a diesel engine?
- A. Carburetor. ☐
- B. Injector nozzle.
- C. Fuel lift pump.
- D. Injector pump.
- (b) What vector is responsible for maize streak disease?
- A. White fly. ☐
- B. Aphids.
- C. Maize leaf hopper.
- D. American boll worm.
- (c) Which of the following bacteria cause mastitis?
- A. Plasmodium. ☐
- B. Streptococci.
- C. Coccidia.
- D. Masticci.
- (d) What is a profit and loss account? This is an account showing
- A. daily entries of purchases and sales. ☐
- B. performance of each enterprise on a farm.
- C. financial position of the farm on particular date.
- D. variable costs and total output.
- (02 marks)

2. What are the uses of a hand hoe on a farm? (04 marks)

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____

3. State **four** factors that determine feed intake by farm animals. (04 marks)

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____

State **five** ways by which diseases spread in a garden.

(05 marks)

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____
- (v) _____

5. Give **five** functions carried out by marketing agents.

(05 marks)

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____
- (v) _____

PART B (80 MARKS)

*Answer any **four** questions from this part, choosing at least **one** from each section.*

Write your answers in the answer booklet/sheets provided.

SECTION I

MECHANISATION AND FARM MANAGEMENT

6. (a) State the reasons for keeping farm records.

(06 marks)

(b) Using the information below, draw up a balance sheet for Mr. Opamba's farm as at 31st December 2017.

(14 marks)

Cash at hand	128,000/=
Taxes due	22,000/=
Loan	800,000/=
Feeds in store	756,000/=
Depreciation of tractor	123,000/=
Debt payable	933,000/=
Account receivable	275,000/=
Value of land	2,000,000/=
Livestock and crops	1,304,800/=
Pre-paid expenses	172,500/=
Interest payable	426,600/=

Turn Over

7. (a) Give reasons why diesel engines are commonly used on the farm than petrol engines. (06 marks)
- (b) State the benefits of mechanizing agriculture. (14 marks)
8. (a) State the importance of a crop store on the farm. (06 marks)
- (b) Explain the factors considered when siting farm buildings? (14 marks)

SECTION II

CROP PRODUCTION

9. (a) Describe an experiment to determine drainage of a soil sample. (10 marks)
- (b) Why should farmers drain water logged soil? (10 marks)
10. (a) Why do most farmers prefer to grow cereals than other crops? (04 marks)
- (b) Describe the growing of maize from seed bed preparation up to harvesting. (16 marks)
11. (a) State the importance of vegetable growing. (10 marks)
- (b) What problems do vegetable growers face? (10 marks)

SECTION III

ANIMAL PRODUCTION.

12. (a) State the importance of poultry rearing. (10 marks)
- (b) Describe the management practices carried out in a deep litter house. (10 marks)
13. (a) State the signs of ill- health in farm animals. (10 marks)
- (b) How can diseases be prevented on a farm? (10 marks)
14. (a) What factors may a farmer consider when formulating rations for his animals? (10 marks)
- (b) A farmer would like to prepare a 17% CP meal for his piglets using 43% CP of maize bran and fish meal 31% CP. In what proportions would he mix the ingredients to make a 100kg meal? (10 marks)

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