

Candidate's Name.....

Signature.....

(Do not write your School/Centre Name or Number anywhere on this booklet.)

527/1

**PRINCIPLES AND
PRACTICES OF
AGRICULTURE.**

(Theory)

Paper 1

July/August 2018.

2½ hours.

PRINCIPLES AND PRACTICES OF AGRICULTURE

Uganda Certificate of Education

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			
Part/Question Signature & No.		Marks	Examiner's
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. For questions 2 to 5, write the answers in the spaces provided.

1. (a) What management practice ensures high litter size in pig rearing?

A. Timely serving.

B. Early weaning.

C. Proper feeding.

D. Flushing sows.

☐

(b) Why are phosphatic fertilizers applied by drilling?

A. They do not scotch plant roots.

B. They take long to dissolve in soil water.

C. They have big granules.

D. They are easily leached out of soil.

☐

(c) Why are water storage tanks made from aluminium?

A. To cool the water.

B. Aluminium is long lasting.

C. To reduce corrosion.

D. They are light to carry.

☐

(d) Why is standardization done in marketing process?

A. To ease packing.

B. To ease pricing.

C. To ease storage.

D. To ease advertising.

☐

(02 marks)

2. State **four** reasons for ridging in potato production. (04 marks)

.....

.....

.....

.....

.....

.....

.....

3. (a) Name **two** implements used for secondary cultivation (02 marks)

.....

.....

.....

.....

.....

(b) State **three** maintenance practices of a disc plough. (05 marks)

.....

.....

.....

.....

.....

.....

.....

4. State **five** effects of mineral imbalance in livestock? (05 marks)

.....

.....

.....

.....

.....

.....

5. How can a spray race be maintained? (04 marks)

.....

.....

.....

.....

.....

.....

SECTION B: (80 MARKS)

*Answer any **four** questions including at least **one** from each section. Write your answers on the answer sheets provided.*

SECTION I MECHANIZATION AND FARM MANAGEMENT

6. (a) Differentiate between land tenure and land reform (02 marks)
- (b) Explain the factors that lead to land fragmentation. (10 marks)
- (c) State the causes of land fragmentation. (08 marks)
7. (b) Outline the factors that affect the quality of concrete. (05 marks)
- (c) Describe the procedure of preparing concrete using the hand mixing. (10 marks)
- (c) What factors should a farmer consider when selecting materials for farm buildings? (05 marks)
8. (a). With the help of a diagram, describe how the carburetor works (14 marks)
- (b). Suggest the care that should be given to the fuel system of a petrol engine so that it functions properly. (06 marks)

SECTION II
CROP PRODUCTION

9. (a) What considerations should a farmer make when grafting?
(08 marks)

(b) Describe the advantages and disadvantages of grafting as a method of grafting.
(12 marks)

10. (a) What is seed dormancy? **(02 marks)**

(b) What are the causes of seed dormancy? **(06 marks)**

(c) Describe the methods of breaking seed dormancy. **(12 marks)**

11. (a) Describe the field production of tomatoes from transplanting to harvesting
(15 marks)

(b) Explain the post harvesting handling of tomatoes from the farm to the market.
(05 marks)

SECTION III
ANIMAL PRODUCTION

12.(a) Describe the preparations that should be carried out for a sow one week before she farrows.
(15 marks)

(b) What are the advantages of early weaning of piglets? **(05 marks)**

13. (a) Give signs of broodiness in poultry. **(05 marks)**

(b) Explain the causes of mortality of chicks during brooding **(15 marks)**

14. (a) Outline the importance of keeping animals healthy **(05 marks)**

(b) List the factors that may predispose an animal to certain disease. **(05 marks)**

(c) How can disease outbreak on the farm be controlled. **(10 marks)**

END

