

Name:.....

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

527/1
PRINCIPLES AND
PRACTICES OF
AGRICULTURE
(Theory Paper)
July / Aug. 2019
2½ hours

INTERNAL MOCK EXAMINATIONS 2019
Uganda Certificate of Education
PRINCIPLES AND PRACTICES OF AGRICULTURE
(THEORY)
Paper 1
2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Answer **all** the questions in Part **A** and **four** questions from part **B** choosing at least **one** question from each section.

Extra questions attempted will **not** be marked.

<i>For Examiner's Use Only</i>		
<i>Part/Question</i>	<i>Marks</i>	<i>Examiner's Signature And Number</i>
A		
B: No.		
No.		
No.		
No.		
Total		

Turn Over

PART A (20 Marks)

Answer **ALL** questions in this part. For questions **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) Ignition in diesel engine of a tractor is caused by;
- A. High temperature of air in the cylinder
 - B. A spark generated by a spark plug
 - C. high pressure of air in the cylinder
 - D. Fuel injection into the cylinder
- (b) The main aim of breeding livestock is to;
- A. Prevent in breeding in herd
 - B. Improve growth rate in animals
 - C. Increase the number of animals on the farm
 - D. Improve the quality and quantity of animals on the farm.
- (c) Which of the following is not a practice under organic farming?
- A. Dusting crops with ash and red peper to control pests
 - B. Mulching crops to control weeds
 - C. Using farm yard manure to improve soil fertility
 - D. Spraying insecticides to control pests
- (d) The most environment friendly way of controlling soil erosion in swamps is by;
- A. planting perennial trees
 - B. growing seasonal trees
 - C. by use of ridges
 - D. By use of absorption banks
2. (a) Give the importance of keeping records during the marketing of crop products.
(02 marks)
- (i)
-
- (ii)
-
- (b) Outline any three importances of processing crop produce before selling.
(03 marks)
- (i)
-

(ii)
.....

(iii)
.....

3. (a) Describe the following management practices in livestock farming.

(i) steaming up.

.....
.....

(ii) colostrums feeding

.....
.....

(iii) flushing (03 marks)

.....
.....

(b) Give reasons why farmers should promote colostrums feeding in calf management.

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.....
.....

4. (a) Outline advantages of micro living organisms in the soil. (02 marks)

(i)
.....

(ii)
.....

(b) Describe the importance of carrying out irrigation in crop production. (03 marks)

(i)
.....

- (ii)

 (iii)

 (d) List any two qualities of a good inorganic fertilizer. (02 marks)
 (i)
 (ii)

PART II

Answer FOUR questions from this part including at least one question from each section

SECTION A : CROP PRODUCTION

5. (a) Explain the procedure of preparing a nursery bed in which seeds are to be planted. (06 marks)
 (b) Give management practices carried out on seedling in the nursery bed up to the day of transplanting. (14 marks)
6. (a) Give advantages of growing legumes together with gross pasture. (04 marks)
 (b) Describe qualities of a good pasture species to be grown for livestock feeding. (06 marks)
 (c) Explain measures that farmers can take to improve on a destroyed natural pasture. (10 marks)
7. (a) Give damages caused by soil erosion in crop production. (06 marks)
 (b) Explain mechanical measures that farmers can carry out to control soil erosion. (14 marks)

SECTION B : (ANIMAL PRODUCTION)

8. (a) Outline the factors to consider when selecting eggs for hatching on a farm. (06 marks)
 (b) Explain reasons why piggery farming is highly competing with poultry farming in Uganda. (07 marks)
 (c) Describe the management that should be carried out when a sow is pregnant. (07 marks)

9. (a) State the qualities of a good stock man. *(08 marks)*
(b) Explain the measures that a stock man should take to ensure high animal production. *(12 marks)*
10. (a) With flow diagram, describe the life cycle of a liver fluke. *(08 marks)*
(b) Using the life cycle of liver flukes, suggest best ways of their control in a farm. *(12 marks)*

SECTION III : MECHANISATION AND FARM MANAGEMENT

11. (a) Describe qualities of good zero – grazing units. *(06 marks)*
(b) Give factors you would consider when selecting a site for a farm house. *(08 marks)*
(c) Explain importance using live fences in a farm. *(07 marks)*
12. (a) Give advantages and disadvantages of using wood in building. *(10 marks)*
(b) Describe the procedure of preparing timber of air seasoning. *(10 marks)*
13. (a) Describe how price is determined in marked by forces of demand and supply. *(08 marks)*
(b) Explain factors that influence supply of commodities in a free market. *(12 marks)*

END