

Candidate's Name

Signature

Random No					Personal No			

(Do not write your school/Centre Name or number anywhere on this booklet)

527/1

Principles and practices

Of Agriculture

Paper 1 (Theory paper)

July/August 2019

2 ½ hours

MOCK EXAMINATIONS 2019
UGANDA CERTIFICATE OF EDUCATION
PRINCIPLES AND PRACTICES OF AGRICULTURE
(Theory)
Paper 1
2 HOURS 30 MINUTES

Instructions to Candidates:

This paper consists of parts A and B

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

FOR EXAMINER'S USE ONLY		
Part/Question	Marks	Examiner's Signature
A		
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 to 5, write the answers in the spaces provided.

1. (a) One advantage of using a disc plough is that it

A: covers trash properly

B: is light

C: Rolls over obstacles

D: produces a fine tilth

(b) Which one of the following animal diseases is treated by using atropine and cannula?

A: mastitis

B: calf scour

C: calf pneumonia

D: Bloat

(c) It is not advisable to use a nitrogen fertilizer to a mixed grass – legume pasture because;

A: nitrogen suppresses the uptake of phosphorus by grass

B: the legume fixes enough nitrogen for the pastures

C: grass may overgrow and suppress the legumes.

D: Nitrogen may reach toxic levels for the legumes.

(d) Which one of the following is a major storage pest of beans?

A: bean fly

B: American boll worm

C: bean bruchid

D: stalk borer

2. (a) State four characteristics that good litter used in a deep litter house should have

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(2 marks)

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(b) Give four reasons for hanging green plants in a deep litter house. (2 marks)

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3. (a) Mention four ways in which nitrogen may be lost from the soil. (2 marks)

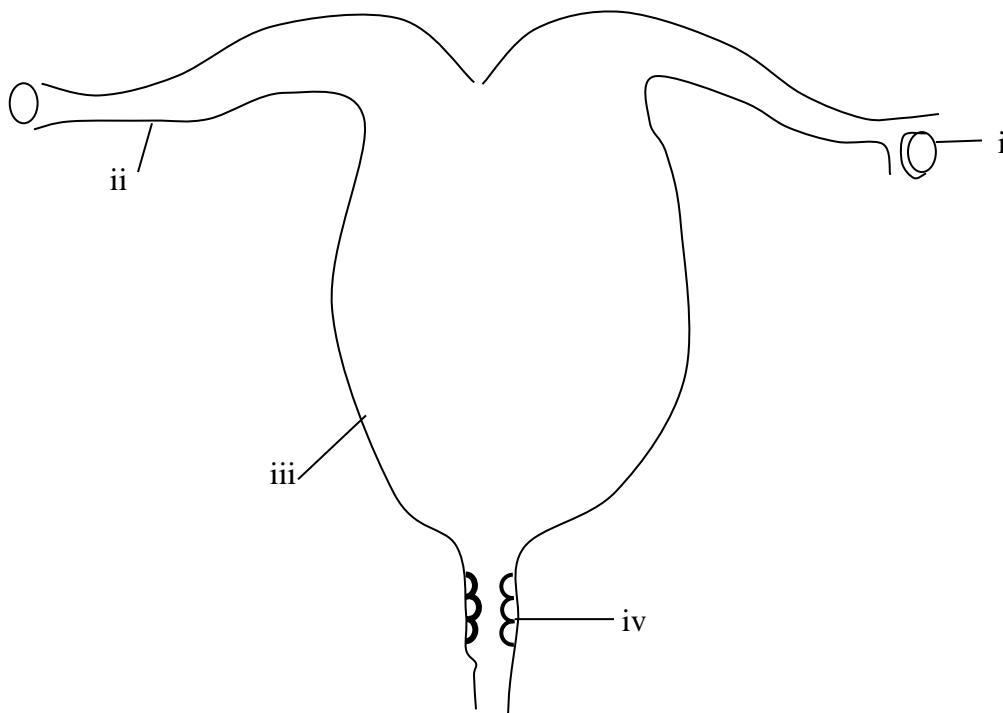
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(b) State four symptoms of nitrogen deficiency in plants. (2 marks)

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4. Figure 1 below shows the female reproductive system of a farm animal.

(a) Study it and name parts 1 – IV



Naming of parts (2 marks)

- i
- ii
- iii
- iv.....

(b) Mention the function of parts (1 mark)

- i.....
-

iii.....
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(c) State four signs of a cow on heat (2 marks)

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5. (a) What is credit? (1 mark)

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(b) State four reasons why a farmer may need credit. (2 marks)

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(d) What makes a farmer fail to pay for credit obtained? (2 marks)

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PART B (80 MARKS)

Answer four questions from this part including at least one question from each section. Additional question(s) answered will not be marked. Write your answers in the answer booklet provided.

SECTION 1

MECHANISATION AND FARM MANAGEMENT

6. (a) Using examples, explain the importance of farm structures. (10 marks)
(b) Outline the advantages and disadvantages of using wood as material for making farm structures (10 marks)
7. (a) Giving an example in each case, distinguish between risks and uncertainties in agricultural production (4 marks)
(b) Explain how farmers may try to reduce the effects of risks and uncertainties in farming. (16 marks)
8. (a) Outline the qualities of a good planter. (4 marks)
(b) Explain the factors that influence the choice of implements used for cultivation. (16 marks)

SECTION II

CROP PRODUCTION

9. (a) Distinguish between soil texture and soil structure. (4 marks)
(b) Explain the importance of soil texture and structure in crop production. (16 marks)
10. (a) What are the benefits of growing perennial crops? (6 marks)
(b) Explain practices that should be carried out to increase crop yields. (14 marks)
11. (a) State the objectives of cultivation. (8 marks)
(b) Explain why ox-cultivation is not widely practiced in Uganda. (12 marks)

SECTION III

ANIMAL PRODUCTION

12. (a) What problems do ticks cause on farm animals? (4 marks)
(b) Describe the life cycle of ONE host tick. (10 marks)
(c) Mention ways of effective tick control on our farm animals (6 marks)
13. (a) Give the characteristics of indigenous cattle that make them successful in Uganda (10 marks)
(b) What are the challenges of managing dairy farming to Ugandan farmers? (10 marks)
14. (a) State the advantages of rearing pigs compared to other livestock. (10 marks)
(b) Outline major factors which could retard work aimed at boosting pig production in Uganda. (10 marks)

END