

NAME:.....SIGNATURE:

SCHOOL:.....INDEX NO:.....

527/1

UGANDA CERTIFICATE OF EDUCATION

PRINCIPLES AND PRACTICES OF AGRICULTURE

PAPER 1 - THEORY

2HOURS 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	MARKS	Examiners Initials
A		
B: NO.		
NO		
NO		
NO		
TOTAL		

PART A (20 MARKS)

For number 1 circle the best alternative and for numbers 2 to 5 fill in the spaces provided

1(a). Which of the following parts of a tractor disc plough is used for setting the vertical angle to plough in hard soils.

- A. Beam
- B. Bracket
- C. Disc Bearing
- D. Disc blade

(b). Which of the following constitutes the soil space?

- A. air and living organisms
- B. Soil air and particles
- C. Air and Water
- D. Soil particles and Water

(c.) One of these spreads maize streak

- A. Aphids
- B. White fly
- C. Leaf Hoppers
- D. Termite

(d). Which of the following belongs to the electrical system?

- A. Float valve
- B. Distributor
- C. Fuel Pump
- D. Thermostat

2. Give the different methods of reclaiming land **(04 marks)**

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3(a). Why is it important to make a balance sheet on a form **(02 marks)**

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(b). What is meant by a risk in farm accounting? **(02 marks)**

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4. How can we maintain tools in good working conditions? **(5 marks)**

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5. Give the functions of engine oil **(5 marks)**

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PART B (80 MARKS)

Answer one question from each section and four questions from this part

SECTION I (MECHANISATION AND FARM MANAGMENT)

- 6(a). What are the sources of farm credit? **(5 marks)**
- (b). Why do farmers fail to pay back credit? **(10 marks)**
- (c). How can credit institutions ensure that farmers pay back credit? **(5marks).**
- 7(a). What are the advantages of using a disc plough over a mould board plough? **(10 points)**
- (b). How can you attach a disc plough on a 3 point linkage? **(10 marks)**
- 8(a). How can you establish a barbed wire fence? **(10 marks)**
- (b). What is the importance of fencing? **(10 marks)**

SECTION II (CROP PRODUCTION)

- 9(a). What are the signs that show that a pasture needs improvement? **(10 marks)**
- 9b). How can a farmer improve on natural pastures? **(10 marks)**
- 10(a). Why are root crops commonly grown in Uganda? **(10 marks)**
- (b). Describe how you can manage seedlings in a nursery bed **(10 marks)**
- 11(a). How is Nitrogen lost from soil? **(05 marks)**
- (b). Describe the different process, involved in the Nitrogen Cycle **(15 marks)**
- 12(a). A farmer would like to prepare a 16% meal for layers using maize bran 42%cp and cotton seedcake 28%cp. In what proportions would he mix the ingredient to make a meal mixture **(15 marks)**

b. What factors are considered when formulating rations for animals? (05 marks)

13(a). How can you prepare hides and skins for sale? (16 marks)

(b). Give the factors which affect the quality of hides before slaughter (4 marks)

14. Describe the procedure of Clean Milk production (20 marks)

END