

Name of Candidate:**sign:**.....

Index number

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Principles and Practices of

Agriculture

Paper 1 (Theory paper)

July/August 2020

2½ hours

NSANGI SECONDARY SCHOOL
Uganda Certificate of Education
PRINCIPLES AND PRACTICES OF AGRICULTURE
Paper 1
2½ hours

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

Questions	Marks	Examiner's initials
Part A		
Part B Qn. No.		
Qn. No.		
Qn. No.		
Qn. No.		
Total		

PART A (20 MARKS)

Answer all questions in this part.

For question 1, write the letter corresponding to the best alternative in the box. For questions 2 to 5, write all answers in the spaces provided.

1. (a) The following are desirable of agro forestry tree species except;
- A. Ability to grow fast
 - B. Having a moderate canopy
 - C. Ability to fix nitrogen
 - D. Having a wide root canopy

- (b) A grazing system which involves setting aside paddocks for later use as standing hay is known as;
- A. Deferred grazing
 - B. Tethering
 - C. Continuous grazing
 - D. Zero grazing

- (c) Which one of the following soil types has got the greatest capillarity?
- A. Clay
 - B. Sand
 - C. Loam
 - D. Sandy loam

- (d) The flow of the fuel-air mixture into the engine cylinders is controlled by;
- A. fuel lift pump
 - B. choke valve
 - C. Throttle valve
 - D. Float valve

2. State four benefits of farm yard manure in the soil. (04 marks)

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3. Outline four reasons for keeping labour records on the farm. (04marks)

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4. Give four ways of improving digestibility of animal feeds. (05marks)

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5. Why do farmers prefer wood to metals when constructing zero grazing units for farm animals? (05marks)

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PART B (80 MARKS)

Attempt four questions from this part including at least one question from each of the sections (i), (ii) and (iii).

SECTION (i); (FARM MANAGEMENT AND MECHANISATION)

6. (a) Describe the functions of the different parts of the cattle dip (08marks).

(b) What precautions should be taken when dipping cattle at the farm
(12marks).

7. (a) State the properties of a good lubricant (06 marks). (b)

Outline the functions of lubricants in farm engines (06marks). (c)

Describe how lubricating oil may be contaminated in a tractor engine

(8 marks)

8. (a) Explain the factors that reduce work output of labour on a farm

(12 marks)

(b) How can work output of labour be improved? (08marks)

SECTION 11(ANIMAL PRODUCTION)

9. (a) Describe the general effects of parasites on farm animals (12 marks).

(b) Suggest the non-chemical measures that can be taken by farmers to control ticks on a farm (08marks).

10. (a) Outline the procedure used for selecting hatchable eggs on a farm

(07marks).

(b) Explain the measures farmers should take to ensure production of good quality eggs (13marks).

11. (a) How does breeding improve productivity of farm animals (08marks). (b)

Explain how a farmer can maintain a high breeding efficiency in a dairy herd (12marks).

SECTION 111 (CROP PRODUCTION)

12. (a) Outline ways through which pests spread in a crop field (05marks).

(b) What damages are caused by biting and chewing pests in a crop field

(08 marks).

(c) Explain the cultural methods of controlling crop pests (07marks).

13. (a) Describe an experiment to determine the amount of water in a fresh soil sample (08marks).

(b) Outline the importance of water in the soil (05marks)

(c) Suggest measures that can be taken by farmers to conserve soil

moisture (07marks).S

14. (a) State the reasons for raising seedlings in a nursery bed (06marks)
(b) Describe how to manage tomato seedlings in a nursery bed up to transplanting (14 marks).

END