

527/1

Principles and Practices of Agriculture

Paper 1

July/August 2023

2½ hours

BUGANDA EXAMINATION COUNCIL MOCKS

Uganda Certificate of Education

PRINCIPLES & 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 atleast one from each section.

For Examiner's use only

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

1(a) Which stage of the live fluke infests the host animal?

- A. Miracidium
B. sporocyst
C. cercaria
D. adult

(b) Which of the following bacteria is responsible for conversion of ammonia to nitrites in the soil?

- A. Rhizobium
B. Nitrobacter
C. Azotobacter
D. Nitrosomonas

(c) Payment for casual labour on the farm is classified as

- A. a fixed cost
B. a variable cost
C. an overhead cost
D. an implicit cost

(d) Why are animals kept in a collecting yard before dipping?

- A. to rest the animals before dipping
B. to count the animals before dipping
C. to assess the level of tick infestation
D. to allow orderly entrance of the animals

(02 marks)

2. State four structural differences between a dairy breed and beef breed. (04marks)

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3. State five principles on which co-operatives operate. (05marks)

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4. Give five reasons for planting crops at the start of the rainy season. (05marks)

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5. State four features of a good pig sty. (04marks)

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SECTION B (80 MARKS)

Answer any **four** questions from this part at least **one** from each section. Any extra number attempted will not be marked.

SECTION I

Mechanization and Farm Management

- 6(a) Why are farmers advised to keep records on their farms? (08marks)
- (b) What information should be included in a breeding record? (06marks)
- (c) Give other types of records kept by farmers. (06marks)
- 7(a) State the reasons why most tractors are of diesel type. (06marks)
- (b) Describe how you would prepare a tractor for a day's work. (14marks)
- 8(a) State the factors to consider when selecting fencing materials. (05marks)
- (b) Describe how a barbed wire fence is erected on the farm. (12marks)
- (c) How is a barbed wire fence maintained? (03marks)

SECTION II
Crop Production

- 9(a) Differentiate between seed dormancy and seed viability. (02marks)
(b) What are the causes of seed dormancy? (06marks)
(c) Describe the methods used to break seed dormancy. (12marks)
- 10(a) Name the common storage pests. (04marks)
(b) State the ways in which crop produce is lost while in the store. (06marks)
(c) Suggest possible solutions to overcome crop losses in the store. (10marks)
- 11(a) State the dangers of erosion on a crop land. (08marks)
(b) Explain the factors affecting water erosion. (08marks)
(c) Outline the mechanical methods used to control erosion on a steep slope. (04marks)

SECTION III

Animal Production

- 12(a) Explain the factors leading to low milk yield in lactating cows. (14marks)
(b) How can high quality milk production be lowered on a dairy farm? (06marks)
- 13(a) Why should farm animals be castrated? (05marks)
(b) Describe how to castrate a calf using the surgical method. (15marks)
- 14(a) With the aid of a diagram, describe how an egg is formed in a hen. (14marks)
(b) State the abnormalities that occur during egg formation process. (06marks)

END