



PRE-REGISTRATION EXAMINATIONS 2024
Uganda Certificate of Education
PRINCIPLES AND PRACTICES OF AGRICULTURE
PAPER 2 (PRACTICAL)
2 hours

QUESTION	SCORE
NO.1	
NO.2	

Instructions

- This paper consists of **two** items
- **All** items are **compulsory**. Write your answers in the space provided.

Item 1

An agronomist was sent to establish which particular crop can be grown under certain pH ranges because different food values for humans.

He selected two places of his choice, one in Lukaya and another one in Mpigi. He grew rice in Lukaya and in Mpigi. He found out that rice in Lukaya performed very well than that of Mpigi. He then picked soil samples from both areas A from Lukaya and B from Mpigi for investigation.

Task

Plan and carry out investigation on the two soil samples. Based on your findings;

a) Identify the pH ranges of soil samples from;

i) Lukaya (05 scores)

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ii) Mpigi (05 scores)

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b) Explain how the pH range of Lukaya and Mpigi would affect crop growth. (06 scores)

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c) Name other two examples of crops that the agronomist would have planted in Lukaya and Mpigi soils.

i) Mpigi (01 score)

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ii) Lukaya (01 score)

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d) How do you think an agronomist would have advised the farmer in Lukaya to grow those crops that grow well in mpigi soils. (02 scores)

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Item 2

Robert is a cattle keeper and at the same time a butcher man. One day he was amused how the digestive system of a cow works after he slaughtered one of his big bulls on the farm. He found out that it has many stomach chambers of which he wanted to know the importance of each and its inner looks and how it helps each other to accomplish its task.

Task

As a student of Agriculture carefully observe each of the specimen O, P, Q, R and S and then help Robert to;

a) Arrange the specimen in order the food passes through them during digestion. (2½ scores)

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b) Describe the structural appearance of each specimen. (10 scores)

O

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P

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Q

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R

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S

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c) Basing on the structural appearance mentioned above, state the function of each specimen. (05 scores)

O

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P

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Q

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R

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S

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d) Briefly explain what would happen to the animal whose S got a digestive challenge. $(2\frac{1}{2}$ scores)

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