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AGRICULTURE
Paper 1
(Theory)
November 2024
2½ hours



WAKISSHA JOINT EXAMINATIONS

Uganda Certificate of Education

End of Year Assessment

SENIOR THREE

AGRICULTURE

Paper 1

(Theory)

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

*This paper consists of **two** sections; **A** and **B**. It has **six** items*

*Section **A** has **two** compulsory items.*

*Section **B** has **two** parts; **I** and **II**. Answer **one** item from each part.*

*Answer **four** items in all.*

*Any additional item(s) answered will **not** be scored.*

*All answers **must** be written in the Answer booklet(s)/sheets provided.*

SECTION A

SOIL SCIENCE AND VALUE ADDITION

Answer both items in this section.

Item 1

Guchina deals in mango growing in Bamunanika Subcounty. After harvesting, it was observed that the ripe mango fruits had damages that were inflicted during packaging from the garden. Big and small sized mango fruits were packed together in the same sacks and taken to Kalerwe market for sale. No sooner had he reached, than market prices for mango fruits fell sharply. This frustrated Mr. Guchina who had a loan to pay from the sales of his mango fruits.

Task;

Write a letter to Mr. Guchina advising him on how he can benefit highly from his mango project.

Item 2

Mr. Rutash established a coffee plantation on a fairly flat piece of land. A unknown person is claiming that this land belongs to him. The soils are always dry throughout. A small layer of surface soil is blown off by wind in form of dust. In the lower part of the land, water stagnates for almost a month before it dries. The soil sample testing shows that the soil has a pH of 12.

(Coffee grows well in slightly acidic soils)

Task

Advise Mr. Rutash on how improve on his soil for coffee production.

SECTION B

PART I: ANIMAL PRODUCTION

Answer one item from this part.

Item 3

Mr. Kajooba is a fish farmer in Nazigo village. He rears tilapia fish because of their high demand. He constructed the fish pond in a seasonal swamp which has water fluctuations. The pond water has a pH of 3 and is covered with too much algae. He feeds his fish once a day at midday. Some fish are eaten by predator birds causing him losses. He uses a stick to pick the mature fish for selling.

(Fish does well in the water pH between 6.5 -9.5.)

Task;

Advise Mr. Kajooba on how he can improve on the fish production.

Item 4

Sentamu rears exotic dairy cattle for milk production in Kalongo-miti town board. He constructed a calf pen using used iron sheets that were leaking. His cows are observed while rubbing their bodies on the walls. One of his animals has sores in the mouth and in between the hooves. He has a lot of green fodder (pastures) during rainy season but runs short of feeds for his animals during dry seasons. Sometimes his milk contains hairs from human beings. During milking, the stubborn animals kick the milk buckets and milk pours.

Task;

Advise Mr. Sentamu on how he can rear dairy animals profitably.

PART II: CROP PRODUCTION

Answer one item from this part.

Item 5

Namwezo deals in maize growing in Wattuba village. She prepared her piece of land manually using hoes with broken handles. She place 4 seeds in each planting hole.

All the seeds germinated. She weeded her maize garden after plants had put on cobs.

At knee high stage, maize plants had holes in the stems and damages on leaves. Some of the crops have yellow stripes along the leaves veins.

She harvests her maize using hands but when some seeds have started germinating from cobs

Task;

Advise Miss Namwezo on how she can improve on her production of maize.

Item 6

After visiting Bukalasa agricultural college, Addo school students established a simsim (sesame) garden. They prepared a rough seedbed using a tractor. After one week, they planted the seeds that they bought from nearby shops by broadcasting. They covered the seeds with a thick layer of soil and clods. A few seeds that were sowed germinated. Some other unclear plants were growing in the garden at a very fast rate. They sprayed their crops against pests early morning once a week before they enter classrooms for lessons. They harvested their crop when the pods were very dry and open.

Task;

Advise students on how they can produce simsim profitably.

END