

TASK:

In your view, explain the precautions that Opio should take to ensure profitable rabbit production on his farm.

PART II: (CROP PRODUCTION)**ITEM 5**

Ssempe, a farmer in Kitega village cultivates acreage of five (5). He also owns two other small land fragments in the nearby village. He has over cultivated them to produce more food crops to feed his extended family and improve their standard of living. However, Ssempe grows crops on poor soils with low nutrient content as a result of over cultivation. The soils are exhausted, that he relies entirely on inorganic fertilizers, for nutrients. Recently, Ssempe decided to transform to commercial farming. This has led to over cultivation and extensive use of inorganic fertilizers and mono cropping. Generally, the situation is not good and there is a great decline in crop production.

TASK:

As an Agriculture learner with vast knowledge about farming, write a message to Ssempe advising him on how to transform his farming into a modern and more profitable system.

ITEM 6

Tukei is a farmer in Mubende, he grows potatoes on one hectare of land. He obtained all the planting materials from his neighbor. The vines had dark spots which appeared as scratches. After clearing the bush using a slasher, Tukei used a dibber to plant and fix the vines. Some of the vines sprouted but others did not. Weeds grew very fast, the potato leaflets were twisted, and stunted growth was observed in some potato plants in the garden. Tukei managed to weed once and decided to harvest the crops after four months using a forked hoe. Most tubers were found rotten and malformed at harvesting. As a result, he obtained only 200 kg of fresh cassava instead of the expected 600 kg per hectare.

TASK

Write a message to Tukei advising him on how to obtain the expected yield.

END

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AGRICULTURE**(THEORY)****MOCK 2024****AUGUST****TIME:2 HRS:30 MIN****MEBU EXAMINATIONS CONSULT****Uganda Certificate Of Education****MOCK ASSESSMENTS 2024****PRINCIPLES & PRACTICES OF AGRICULTURE****(THEORY)****TIME:2HRS:30MINS****INSTRUCTIONS TO CANDIDATES**

- This paper consists of **six** examination items. It has **two** sections A and B.
- Section **A** has **two** compulsory items. Section **B** has two parts: I and II.
- Answer one item from each part.
- Answer **four** examination items in **ALL**.
- Any additional items answered will not be scored.
- All answers must be written in the answer booklets provided.

SECTION A

(SOIL SCIENCE AND VALUE ADDITION)

ITEM 1.

Your school administration has preference for crops such as maize. Agriculture learners chose to establish a plantation in the school farm. Some areas at the school farm are steep and rocky with shallow soils while other areas are gently sloping with deep, well drained and fairly fertile soils. In the course of running the project, it was observed that the soils were compact, sticky, and flooded with water. The pH of the soil in the nursery is lower than the recommended range for maize growing. The seedlings were thin with shallow roots, bent stems and yellowish leaves.

TASK

In your opinion, suggest improvements that Agriculture learners should do to ensure successful maize production on the school farm.

ITEM 2

Marvin is a new worker on a dairy farm. He realized that the farm produces lots of milk. The milk gets bad some times and other times, the milk is contaminated due to poor handling. The farm manager is going to be off duty for 2 months and Marvin has been appointed acting manager. Marvin is totally in trouble because he is overwhelmed with the duties ahead of him. He barely has any idea of processing any milk product.

a).TASK I

You have visited Marvin on the farm, advice Marvin.

Assuming Marvin has considered your advice and the Farm's board of management would wish to start processing milk products, control milk spoilage, wastages and contamination.

b).TASK II

Develop a guide to be used by the farm to achieve this intention.

SECTION B

This Section has two parts; I and II

PART I: (ANIMAL PRODUCTION)

Answer one item from this part.

ITEM 3

Nankya, a student of Agriculture visited the uncle's farm in **Kiwatule** and in her findings, she indicated that the roof of a calf pen was leaking, the cattle were emaciated and the dung contained worms. The adult animals could hardly find what to eat and were grazing on woody natural pastures. The only source of water had snail shells, algae and dung. The lactating cows had cracks on their teats. Hair like substances was seen in the milk which was filtered using an old cloth. The farm owner uses a basin for mixing the acaricide.

TASK

Basing on the report from Nankya, how can the farm owner improve on the productivity of the livestock of the Farm?

ITEM 4

Lacen is an Agricultural Officer of Gulu district. She visited Opio's rabbit farm at Laroo village. After her visit, she reported that rabbits were found crowded in a simple ground hutch with a roof sheltered with rusty and broken iron sheets. The hutch had no wire netting, light source and had a broken wooden door with a rotten part. Research showed that the hutch was constructed in an open space close to the main road, had dirty feeds and water troughs placed on a damp floor with rotten litter and rabbits had freedom to move out of the structure any time. Lacen's report indicated that rabbits were fed on any kind of food and fermented pelleted feed remains were seen in some dirty feed troughs. In the short period she was at the farm, she observed that the feeding and watering schedule was not strictly followed, rabbits were in poor condition with over grown teeth and worms were seen in their droppings. There was general weight loss, loss of fur and some dead rabbits were seen in cage corners.