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PRINCIPLES AND PRACTICES
OF AGRICULTURE
(Theory)
Paper 1
July/August, 2025
2 ½ hours



GLORISO EXAMINATIONS BOARD (GEB)-KAMPALA
SECONDARY SCHOOLS JOINT MOCK ASSESSMENTS, 2025

Uganda Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 1

Theory

2 hours 30 minutes

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 item (s) answered will **not** be scored.*
- ✓ ***All** answers **must** be written in the Answer booklet (s) provided.*

SECTION A
SOIL STRUCTURE AND VALUE ADDITION

Answer all items in this section

Item 1.

Mr. Mwiru is a prominent dairy farmer who produces milk on a large scale. He used to sell his milk to the customers in the community and some of the dairy operators in the nearby towns. At times, the milk could reach the dairy when it has gone bad, contaminated with hair and dung, it is transported in jerricans and could fetch him little money since one litter was sold at shs. 1,000 to customers and shs. 800 to the dairy collecting centers. One time Mr. Mwiru attempted to make ghee from the milk but he failed.

Task:

As an expert in handling animal products, help Mr. Mwiru to overcome his challenges.

Item 2.

In Nabwigulu farming community, many farmers carryout maize production. During harvesting season, the farmers sell their maize to individual middle men who at times pay less money. Most farmers use up their money without saving anything while others dig pits in the houses where they put the money. Sometimes thieves attack them and rob all the money. They dry their produce on the ground and the maize is stored in the leaking stores. One time, the farmers tried to make farmers' groups but they failed since it did not follow principles and members were not cooperative.

Task:

Basing on the scenario, how can you help Nabwigulu farming community to solve challenges?

SECTION B

This section has two parts; I and II

PART I: ANIMAL PRODUCTION

Answer one item from this part.

Item 3.

Opinyi bought a number of the local breed to rear for egg production. The house was constructed in poorly drained area, had leaking roof and was covered by tarpaulins on the sides. Some birds were seen eating each other's eggs, producing watery droppings and others were stunted in growth. Opinyi decided to treat the birds using herbal medicine but the birds continued to die and he was only making losses.

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Task:

Guide Opinyi on how to solve his problem to improve on the conditions of the animals.

Item 4.

Mr. Okoth has his animals which are poorly fed on his farm. The veterinary doctor advised him to make a ration to improve on his animal health. The doctor told him to buy maize bran containing 11% crude protein and soya beans containing 37% crude protein. He wants to make a ration containing 15% crude protein to be mixed in 100kg of the ration in order to improve the conditions of the animals.

Task:

According to the scenario, help Mr. Okoth to determine the the proportion and amount of maize bran and soya beans to be mixed in 100kgs ration.

PART II: CROP PRODUCTION

Answer *one* item from this part.

Item 5.

Kasolwe bean farmers last season hired a large piece of land. They cleared the land by slashing. Immediately after slashing, they sprayed against the weeds. When the rains started, they bought the seeds from the store, they planted and after germination, the garden has gaps. Weeding was done by spraying. The crops were stunted with yellowish leaves; the soil was infertile with a lot of stumps. Therefore, they harvested nothing from the previous season. The farmers are intending to grow the same crops next season.

Task:

As an agriculturalist, how can you help Kasolwe bean farmers to have good harvests next season?

Item 6.

Maize production is one of the most profitable enterprises in Uganda. After Mr. Obbo reading this in the newspaper, he went to the neighbour and requested him to assist him with some seeds. The seeds were mixed with a lot of other seed varieties and foreign materials like weed seeds. He was late according to the season. Therefore, he planted in a bush and planting was done by broad casting the seeds. Some seeds germinated and weeding was done by spraying using selective herbicides, most of the crops were attacked by full army worms which reduced the growth of crops. The soil was acidic therefore, the maize could not come up well. Mr. Obbo is zealous to be one of the prominent maize producers in the country. According to NAADS, the recommended spraying for maize is 90cm inter row and 75cm intra row.

Task:

Write the information you would give Mr. Obbo to solve his challenges to improve on maize growing.

****THE END****