

Candidate's Name:Signature:

52/1

AGRICULTURE Paper 1

2024

2¹/₂ hours



B. PETER'S ACADEMIC PLATFORM

UGANDA LOWER SECONDARY CERTIFICATE OF EDUCATION

AGRICULTURE

SENIOR FOUR

INSTRUCTIONS TO CANDIDATES:

This paper consists of **several** examination items.

Attempt all questions

Item 1

Cereal growing is gaining more popularity in many parts of the country. This is so good to our country Uganda and her neighbours. However due to many reasons soil is becoming unproductive and a lot has to be done if farmers are to benefit from cereal growing and many farmers are ignorant about the project.

Task

Write a sensitisation message to Akwero who just wants to start up the project.

Item 2

Vegetables are very important in our life because of the very many nutritional and economic values. However many farmers are still experiencing low yields on harvest time, the products are always small in size with damaged leaves, fruit or roots. After harvesting, the vegetables can easily attract buyers as they are always mixed with one another, sold in dirty containers and the rotten ones are also on market. Farmers are welcoming buyers in case one goes in the vegetable market. Farmers fetch little money from the vegetables and feel like quitting the job.

Task

You have visited vegetable farmers in your place, write a sensitisation message to help farmers remain in business and fetch more money.

Item 3

Kansiime has been rearing animals for ten years. He has now wished to grow some crops and he has just bought one new acre of land. He can not tell the soil drainage, nutrient content, aeration, pH among others. Kansiime wants to know more about the conditions of soil such that he takes a right decision in choosing a crop to grow. He does not know what to do.

Task

Write a guiding message to Kansiime such that he finds more about his new piece of land.

Item 4

Arinitwe is a new worker on a dairy farm. His manager has been off duty for three days but the prepared feed is used up and Arinitwe is not much experienced in mixing rations. However the manager has always formulated a ration of his dairy cow containing 15% CP using maize bran which is 35% crude protein and alfalfa which is 55% crude protein to have 250 kg in his store. Arinitwe is totally in trouble because he has nothing to feed to the animals.

Task

You have visited Arinitwe on the farm. Help him come out of the challenge and also advise him on what he has to consider when formulating ration for animals.

Item 5

During rainy season, many farmers in Nakasongola have their pasture lands filled with plenty of pastures and a lot of stagnant water where animals drink from. The bush also grows around their poorly constructed animal houses. They feed their animals to the maximum and expect good yields but they continue to see their animals sometimes passing

out watery faeces with some small eggs of worms, they remain with rough hair coat and give little yields. The situation worsens when it comes to dry season where all pastures dry and farmers have nothing to feed to their animals. Farmers suffer a lot and some of their animals die.

Task

The chairperson LC 3 called a meeting in Kalongo sub county of Nakasongola district and you have been invited because you are an extension worker in that area. Write a speech you will present in the meeting.

Item 6

Ociiti wants to rear poultry on his farm specifically for eggs given the little knowledge he has because for many years has been dealing with fish farming. His hope is now in rearing birds. He made a booking of chicks and is receiving them two weeks from now.

Task

Ociiti has employed you as his advisor. Help him have a successful project

Item 7

Mr. Rukundo a farmer in Kamagu village cultivates a small acreage of 5 hectares. He has an extended family with four house wives and 28 children. He works hard to ensure that he meets his family needs. Mr. Rukundo also owns two other small land fragments in the nearby village and has over cultivated them to get enough family food. However, Mr. Rukundo grows crops on poor soils with low nutrient content due to over cultivation. Kamagu village is found in the cattle corridor but with scanty poor pasture species. Recently, Mr. Rukundo bought five improved dairy cattle breeds and always moves with them from one place to another looking for pasture and water. This has exposed his cattle to attack by parasites and diseases. Generally, the situation is not good and there is a great decline in both crop and animal production.

Task:

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

Item 8

Mr. Kapere wanted to grow beans on a large piece of land. He cleared all the vegetation from the area and collected the trash to allow proper movement of the farmer to all points in the field. After collecting the trash from the cleared area, he spotted 20 places in the field convenient for picking soil samples from. He collected the necessary tools required for the activity. He put on gumboots, farm gloves, went to the farm tools and equipment store and picked a hand hoe, soil auger, spade, soil sampling bag and loaded the tools onto the wheelbarrow. He then pushed the wheelbarrow to the field ready to collect soil samples.

Task:

As a Pedologist, suggest the activity that Mr. Kapere was going to carry out, write an essay explaining the steps that were to be taken to fulfill Mr. Kapere's need and give reasons for carrying out the above activity on the farm.

Item 9

Nabbumba is an Agricultural Extension Worker in greater Mukono area. She visited Kizuka's rabbit farm at Naggalama near Naggalama parish. After her farm's 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

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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 feed and water troughs placed on a damp floor with rotten litter and rabbits had freedom to move out of the structure any time. Nabbumba'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.

Task:

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

Item 10

Katungye is a livestock farmer in Rukungiri district. He rears cattle, goats, sheep, pigs and poultry. The farm is in an area with many animals and birds have freedom of movement from one place to another. He established a green fence around his livestock farm. Recently, Rukungiri District production officer visited Katungye's farm and observed that the green fence had overgrown trees and shrubs with wide gaps at the bottom. Katungye constructed a valley pond that serves as a central water source for all his animals. Sometimes animals from other farms in the nearby villages enter through the fence and meet Katungye's animals at the drinking water point. In addition to the above, the farm buildings are in bad condition. Two weeks ago, birds from other farms were observed with severe cough, bloodstained droppings, mucus discharge from nostrils, difficulty in breathing, dropping wings, loss of appetite, scratch marks on their bodies and some pigs had suffered from African swine fever. Recently, Katungye employed a new farm manager to guide his farm workers on what to do. The new farm manager booked, paid, and stocked 20 cows, 40 goats, 40 sheep, 40 pigs and 2000 poultry layer birds.

Task:

Write an advisory note to the farm manager to help him overcome Katungye's livestock farm challenges in order to improve production and earn more profits.

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