

ST. PETERS HIGH SCHOOL BUSABALA

COMPETENCE BASED ASSESSMENT EXAM

BEGINNING OF TERM 1 EXAMS 2025

S.3 BIOLOGY PAPER 1

TIME 2 HOURS

NAMESIGN.....

INSTRUCTIONS TO SEMI-CANDIDATES

- This paper consists of two sections, A and B

SECTION A

Attempt all items in this section

Item 1

Caspian and Jester grow maize on the same piece of land, only divided into two gardens, Jester's garden is close to a stone quarry that produces a lot of dust during the extraction of stones and covers the crops in the garden. Caspian's portion is very far away from the quarrying area. The maize in both gardens grew differently despite being in the same soil profile.

At flowering stage, Jester discovered a strange moth in his garden, whose larvae and eggs were laid within the enclosed flowers and these fed on the maize stems.

Support material



TASK

(a) Identify the plant structures affected by the prevailing conditions in the gardens of the two farmers.

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(b) Explain how the conditions in Jester’s garden were responsible for the delayed yields

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(c) How did Caspian’s maize manage to give yields before that of Jester?

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Item 2

Tabula visited Kisubi hospital after experiencing a serious weight loss due to loss of food appetite for consistent six days. The receptionist took his weight as 60kg and his height as 3m. He then wanted to find out the mass index of this patient but could not perform the calculation perfectly .

Support Material



Task

(a) Help the receptionist to meet his goal.

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(b) In which way is understanding one's BMI medically useful to health workers.
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SCETION B

Choose two items

Item 3

Fred is a 15 year old boy who lives with his grandmother in the village. He usually helps his grandmother in fetching water, collecting firewood and other house chores. One day he was collecting fire wood, however he was accidentally scratched by a stick on the hand and he started bleeding for some time. On his surprise after a short while, the blood stopped coming and he observed a thick fiber of blood on the affected area. This surprised him and he was wondering how it came to be.

SUPPORT MATERIAL



TASK

Fred has come to you for explanation, help him to stop being surprised of the incidence and explain to him the effects of losing blood in the body. (15 scores)

Item 4

Opio , a s.3 student ate a meal consisting of an egg, cooked cassava and ground nuts during his breakfast. After eating, he went back to class for his mid-morning lessons.

SUPPORT MATERIAL



Original Image

TASK

As a student who acquired knowledge about how animals obtain their food, ingest it , digest and final products of digestion absorbed; help Opio understand the physiological processes the food went through to the level of being absorbed. (15 scores)

ITEM 5

Some of the challenges facing families that keep cattle and handle milk in big numbers are vector insects one finds around their homes. Besides some of the cattle keepers confine their cattle in kraals which ultimately become muddy in wet seasons and stagnant water collects in the holes dug by the cattle hooves, many of these people eat cold food which is often left uncovered and sleeping under mosquito nets , closing of doors and windows is rare.

Consequently complaints of frequent diseases associated with vomiting and stomach pain are common in such areas.

SUPPORT MATERIAL



TASK

(a) Explain the likely causes of the frequent complaints above

- (b) Advise the cattle keepers on what they can do to reduce on the frequent complaints. (15 scores)

END

**(If u desire to end well, ensure that u rest in Christ ONLY.
Otherwise, Hell is for real)**