

Student's Name: Steam:

Signature:

Random No.					Personal No.		

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553/1

BIOLOGY

Theory

Paper 1

April 2025

2 hours



ASK INTEGRATED TEACHERS' EXAMINATIONS BUREAU LTD

Uganda Lower Secondary Certificate of Education

END OF TERM 1 ASSESSMENT 2025

BIOLOGY PAPER 1

SENIOR THREE

(Theory)

2 Hours

INSTRUCTIONS TO CANDIDATES:

This paper consists of seven examination items.

It has two sections; A and B.

Section A has three compulsory items.

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

Answer five items in all.

Any additional item(s) answered will not be scored

ITEM 1

Under the emyoga youth program, a group of 15 youths were supported with two million shillings. The group agreed that the money be invested in crop production.

The members agreed to plant Ground nuts, Irish potatoes, Sorghum, sugar cane and bananas.

One fateful day, a heavy rain with hail storm struck, putting down all the crops of the youth group. This worried them since this was a shared project.

However after 3 weeks, some crops were seen re-growing while others did not. This raised concern among the group members.

TASK

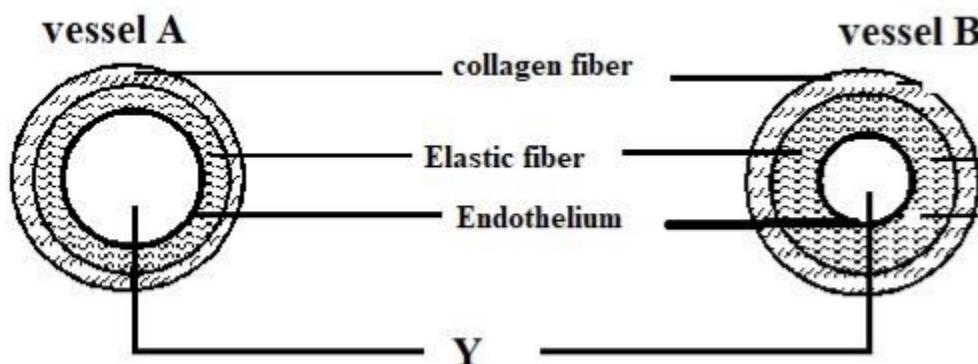
- a) Identify the plant organs that were affected by the hail storm.

- b) Explain how the effect on this organs would affect the overall health of the crops.

- c) Suggest which crops were able to re-grow after 3 weeks and explain why it was so.

ITEM 2

Dr. Nambasi when addressing the nation about the different diseases that affect human circulatory system, he said, ‘circulatory system consists of the pumping organ, circulating fluid and the channels/tube-like structures. He used the vessels below A and B in differentiating the categories of channels through which a circulating fluid. Use the following vessels and attempt the following questions.



Task

(a) (i) which organ in the body did Dr. Nambasi refer to as the pumping organ?

(ii) Identify which channel of the circulatory system is vessel A. Give a reason for your answer.

(b) (i) State two structural differences between vessel A and vessel B.

(ii) Describe how the structural differences given above are significant in the functioning of vessels.

(c) State one function of a circulating fluid in the circulatory system.

ITEM 3

There is an outbreak of a rare disease in Kimanto village in Luuka District with the following signs and symptoms; abdominal pain, passing of dark urine, fever, joint pain, Nausea and vomiting, yellowing of skin and eyes (jaundice) and loss of appetite. You have been contacted about the possible cause of this disease. Briefly explain to them what this disease is and how it's got and spread from one person to another.

SECTION B

PART I

Attempt any one question from this part

ITEM 4

Malaria has become so common within people living near water bodies. The government has brought YEKO insecticide to kill mosquitoes but preliminary research shows that YEKO kills termites, bees and butterflies. The ESIA group an environment advocacy group has opened up a campaign against the use of YEKO.

Task

Write an article that you would send to the chief Editor to support the campaign of ESIA group

ITEM 5

Many farmers practicing farming in hilly areas in Uganda especially in Kigezi regions are facing many challenges in their farmlands due to increased washing of top soils to low lying areas especially during rainy seasons. This has greatly affected productivity in such areas.

Task

As a soil scientist, explain to these farmers the likely causes of the above problems. Advise them on the possible measures that can be used to overcome the above problems. (15scores)

PART II

Attempt only one items from this part.

ITEM 6

Mr. Onyango had a piece of land with a lot of vegetation which he cleared three years back to grow crops on a large scale. In the first season, he had high yields, he continued growing the same type of crop season after season, gathering garden refuse and burning it during preparation for planting, applying an artificial fertilizer excessively. After three years using his piece of land for crop production, the yields became low and he started making losses.

Task

- a) Explain to Mr. Onyango the cause of the poor harvest
- b) Explain to him what he should do to overcome the challenges of poor yields in the coming seasons.

ITEM 7

In most towns, cities and trading centres in Uganda many of the people feed on fried food like chips, pizza foods rich in carbohydrates like rice, posho. They take most of their time seated selling items in shops, late in the evening drive off in their cars to their houses, this has resulted into stress, overweight, obesity, difficulty in breathing, increasing cases of high blood pressure.

Task

Explain to them the possible causes of the health challenges they are facing and advise on possible measures.

END