Names:	Index. No:
School Exam Number	Signature:
553/1	Candidates should NOT write their Centre Name or Centre Number anywhere on this booklet

553/1 BIOLOGY (THEORY) Paper 1 8 August 2024 2½ hours



ENTEBBE JOINT EXAMINATION BUREAU

Uganda Lower Secondary Certificate of Education

BIOLOGY

Paper 1

THEORY

2 hours 30 minutes

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. Use the answer pages provided at the end for

Section B

Any additional item(s) answered will not be scored.

SECTION A: COMPULSORY

Explain how the weather patterns experienced in Kitwe village led to Mar observations.

O110	of the job conditions was that he had to take regular medical checkup. The
checon	ekup revealed that Lokiru has diabetes but he has decided to hide his health dition from his employer because he fears losing his new job.
Tas	ekup revealed that Lokiru has diabetes but he has decided to hide his health dition from his employer because he fears losing his new job.
che	k Describe how the structures of the Lokiru's arms will enable him to work

2.

(b)	What body changes is Lokiru likely to experience due to the newly-revealed health condition.

~1	on got pregnant a few months after she experienced her first menstruation
only sinc	man responsible for her pregnancy has warned that he will take responsible if the result is a male child. She is worried about the sex of her unborn to she cannot manage to provide the necessities without the man's support.
only sinc Tas	if the result is a male child. She is worried about the sex of her unborn to she cannot manage to provide the necessities without the man's support.
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5 Turn Over

(b)	Describe the challenges she is likely to experience due to her condition regarding her age.
(c)	Advise both parents on how best they can care for their baby after birth.

SECTION B

Part 1

4. In an attempt to keep the city clean, a garbage dumping site has been established in the neighboring rural community. In this community, whenever the wind blows, it carries polythene materials from the garbage dumping site to the gardens and nearby water bodies. Birds and fish have often been found dead after being suffocated by polythene. The community members have recorded a gradual decrease in farm yield ever since. They blame the decrease on the new establishment in their community.

Task

Explain how the new establishment is related to the observed challenges and how the challenges can be overcome. Explain to them why it is necessary to maintain their environment in its original state.

5. Kigura is a sparsely-populated area where most people practice fish farming. A new person who owns large herds of cattle and goats has migrated to this community. He cut the trees and cleared a large part of the wetland to establish his farm. To keep ticks and other parasites away from his animals, he sprays regularly and the excess of the spray and animal excreta flows to the wetland. The neighbours have complained due to death of their fish and prolonged drought experienced in Kigura. Although they blame him for it, he has denied to take responsibility.

Task

Explain to the immigrant and show him the responsibility he has in the challenges of the community. Advise community members how to control the observed challenges and why it is vital to conserve their environment.

Part II

6. Hillary and Henry are twin brothers. Hillary plays chess most of his leisure time while Henry plays football. One evening they decided to race home but Hillary stopped after running a very short distance which prompted Henry to stop too. After stopping they realized that they were sweating, their heart beat rates and rate of breathing had increased but Hillary took longer than Henry to return to normal and experienced pain in his thigh muscles for some time. Hillary was confused as to why there were such observed differences between them.

Task

Explain to the twins the observed body changes. Resolve Hillary's confusion and advise him on how he can avoid experiencing the observed differences in future.

7. Tom retired from active military service due to an amputated leg. He went to stay in his village where he continued smoking heavily and neglected his health. Recently he started having sleepless nights due to tooth aches and violent coughs.

Task

Explain to Tom what could have caused him the observed challenges. Prove to him that this could be sign of a bigger health problem and advise him on how he can best take care of his health.

7 END



