

Student's Name: ..... Student's No: .....

School: .....

Class	Stream
S. 3	

(Write your Name, Student's number and School in the spaces provide.)

553/1

**BIOLOGY**

(Theory)

**Paper 1**

**October 2023**



**Educan**

**EDUCAN EXAMINATIONS BOARD**

**Uganda Lower Secondary Certificate of Education.**

**(U.L.S.C.E)**

**BIOLOGY**

**(THEORY)**

**Paper 1**

**2 HOURS: 30 MINUTES**

**INSTRUCTIONS:**

- This paper consists of **5** items, Attempt all the items in this paper
- All answers to the items should be written in the spaces provided.
- Illustrations in form of drawings should be made where necessary, with a sharp pencil.

**For official use only**

<i>Item</i>	<i>Score</i>	<i>Teacher's comment</i>
1.		
2.		
3.		
4.		
5.		

1. Opat, a senior one student from Olobo Village has been battling with fear and enigma. His father, a 50-year-old man, and the chairperson of the village, has been diagnosed at the local health center in the village and has been found HIV positive. The rumour about his father's HIV status has been spreading throughout the entire village and people are afraid of associating with any member of Opat's family. Students at school also don't want to associate with him. The issue has reached the administration. The school administration has decided to invite a health personnel from the village health center, to talk to the students about the problem in the school.



### Task

As a health personnel, write a speech you would deliver to the students gathered on the school assembly ground.

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<i>Relevance (R)</i>	<i>Accuracy (A)</i>	<i>Coherence (C)</i>	<i>Excellence (E)</i>	<i>Total score</i>

2. In Maswanku village, at the shores of Lake Victoria, there is a village market located near a swamp. In this busy market, there are lots of rubbish heaps scattered amongst congested stalls. One of the major merchandises sold in the market is honey and some locals in the area make bricks just near the market in the swamp. A clinical officer in the area has reported high cases of patients suffering from diseases like malaria, cholera and diarrhoea. The District Health Officer (DHO) has organised a sensitization campaign in the area about the situation.



### Task

As a health personnel in the area, write a speech you would deliver to the locals in the area to address the problem.

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This image shows a full page of primary-ruled paper. It features multiple horizontal rows, each defined by two parallel dashed lines. The rows are evenly spaced across the entire page, providing a guide for handwriting practice. There are no margins, text, or other markings present.



3. Abigail, a 13 year old girl is a student who is very active in sports and likes doing physical exercise every morning. She has recently been added to the school junior netball team. Her mother back home is five months pregnant and takes care of her 80 year old grand father. Abigail's father works at the a supermarket in the area as a an attendant. The family has been having issues over which food to prepare that will suit the needs of each member of the family. You have been contacted as an nutritionist to save the situation in the family.



### Task

As a human nutrition expert, design a food menu for each individual in the family including its rationale.

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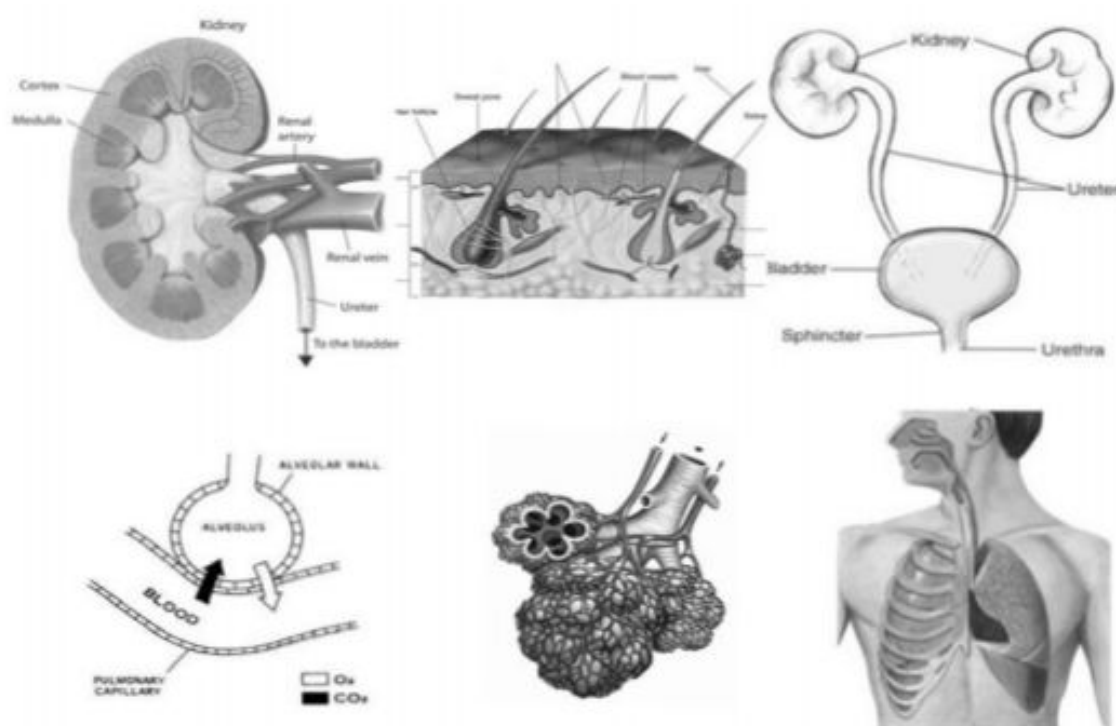
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This image shows a full page of primary-ruled paper. It features multiple horizontal rows, each defined by two parallel dashed lines. The lines are evenly spaced across the entire page, providing a guide for handwriting practice. There are no margins, text, or other markings present.

4. In one of the astounding and thrilling introductions of a new topic to his learners, teacher Bagoole took the S.3 students to a nearby abandoned factory that used to manufacture sugar. The factory used to release lots of waste materials, including gases through chimneys and sewer pipes. The pipes that move materials within and through the factory however, broke down, leading to accumulation of much wastes within and around the factory. The wastes became very toxic, the entire place was smelly and due to complaints from the public and workers within, the factory was closed by the government officials in the area, and eventually stopped operation. In an analogous manner, he tells his learners that our body functions in a similar way. The learners however had hard time relating the factory and the human body in how they function.



### Task

Make a write-up for the students to help them understand the analogy.

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<i>Relevance (R)</i>	<i>Accuracy (A)</i>	<i>Coherence (C)</i>	<i>Excellence (E)</i>	<i>Total score</i>

5. Mr. Ojok, a tall dark-skinned man, married a short light skinned woman from central Uganda and they have since had three light skinned girl children. Two of the children are tall and one is short. To his surprise, he expected the children to resemble him since most of his brothers have children that resemble them, but none of the children resembled him. He also keeps blaming his wife for producing only girl children. This has created conflict between John and his wife, as he claims the children might not be his. Ojok has been advised to visit a genetic counselor to help sort his issue.



### Task

As a genetic counselor, help Ojok and his wife solve the conflict in the family.

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