

Candidates' Name: _____

Signature: _____

553/2

BIOLOGY

(Practical)

Paper 2

Aug 2024.

2 ½ Hours.

**RUKUNGIRI DISTRICT SECONDARY SCHOOLS
JOINT MOCK EXAMINATIONS 2024**

Uganda Certificate of Education

BIOLOGY PRACTICAL

Paper 2

2 Hours 30 minutes

INSTRUCTIONS TO CANDIDATES.

- ❖ *This paper consists of two examination items*
- ❖ *Answer all the items in the spaces provided*
- ❖ *Drawings should be made in the spaces provided*
- ❖ *Use sharp pencils for your drawings.*
- ❖ *Coloured pencils or crayons should not be used.*
- ❖ *No additional sheets of writing paper and to be inserted in the booklet*
- ❖ *Work on additional sheets will not be scored.*

For Examiners' Use Only		
Item	Score	
1		
2		
Total		

ITEM ONE

Doreck is a nine-year old girl in Katogo village, Rukungiri district. On many occasions, she has fallen sick and her parents have always taken her to Nyakibale hospital for medication.

Ms. Nahurira Tashobya, a medical doctor in the same hospital told the parents of Doreck that her sickness originates from poor feeding habits. The parents told the doctor that Doreck feeds on food nutrients, W_1 and W_2 with a surplus of food stuffs containing mineral ions from salts and oils. The parents have still remained inquisitive and would wish to know what they are excluding in their daughter's meal.

Task.

Carryout biological investigation on food samples W_1 and W_2 and use your results to advise the parents of Doreck appropriately.

ITEM TWO

Guma is a farmer growing specimen **K** next to a forest reserve. In the forest reserve, there are lots of specimen **L** and many other organisms that usually come to his garden. Many of them eat and destroy the crops leading to low yields. He decided to buy a strong pesticide to spray the entire garden and killed most of the pests including specimen **L**. To his surprise, he had killed almost all the pests but he realised low yield of specimen **K**. he is confused about this observation, since he thought the remedy would provide a better solution and improve crop yields.

Task.

(a) Observe specimen **K** and **L**, carefully;

(i) Identify specimen **K** and give two reasons.

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(ii) State the class where specimen **L** belong and give three reasons.

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(b) (i) Suggest a relationship between the yield of specimen **K** and presence of specimen **L**.

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(ii) How is specimen **L** adapted to it's role in crop production?

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- (c) Advise Mr. Guma how to deal with the pests in his garden next season so as to have better yield of specimen **K**.

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- (d) Open up specimen **K** longitudinally. Draw and label the appropriate section. State your magnification.

END