

77 students.

114th

Each candidate should be provided with;

20 cm³ of solution **G**. (*made by mixing 10.0g of starch with 20cm³ of orange juice and the mixture diluted to one litre of solution with distilled water*)

20 cm³ of solution **H**. (*made by mixing 10ml of egg albumin and 20ml orange juice extract and topping up with distilled water to make 1000ml of solution*)

Young *Amaranthus* stem **without** flowers labeled specimen **P**.

Commelina stem with adventitious roots at the nodes labeled specimen **Q**.

Easy access to;

Reagents for food test.

Heat source.

6 test tubes.

Test tube rack.

Test tube holder.

Thermometer.

Hand lens.

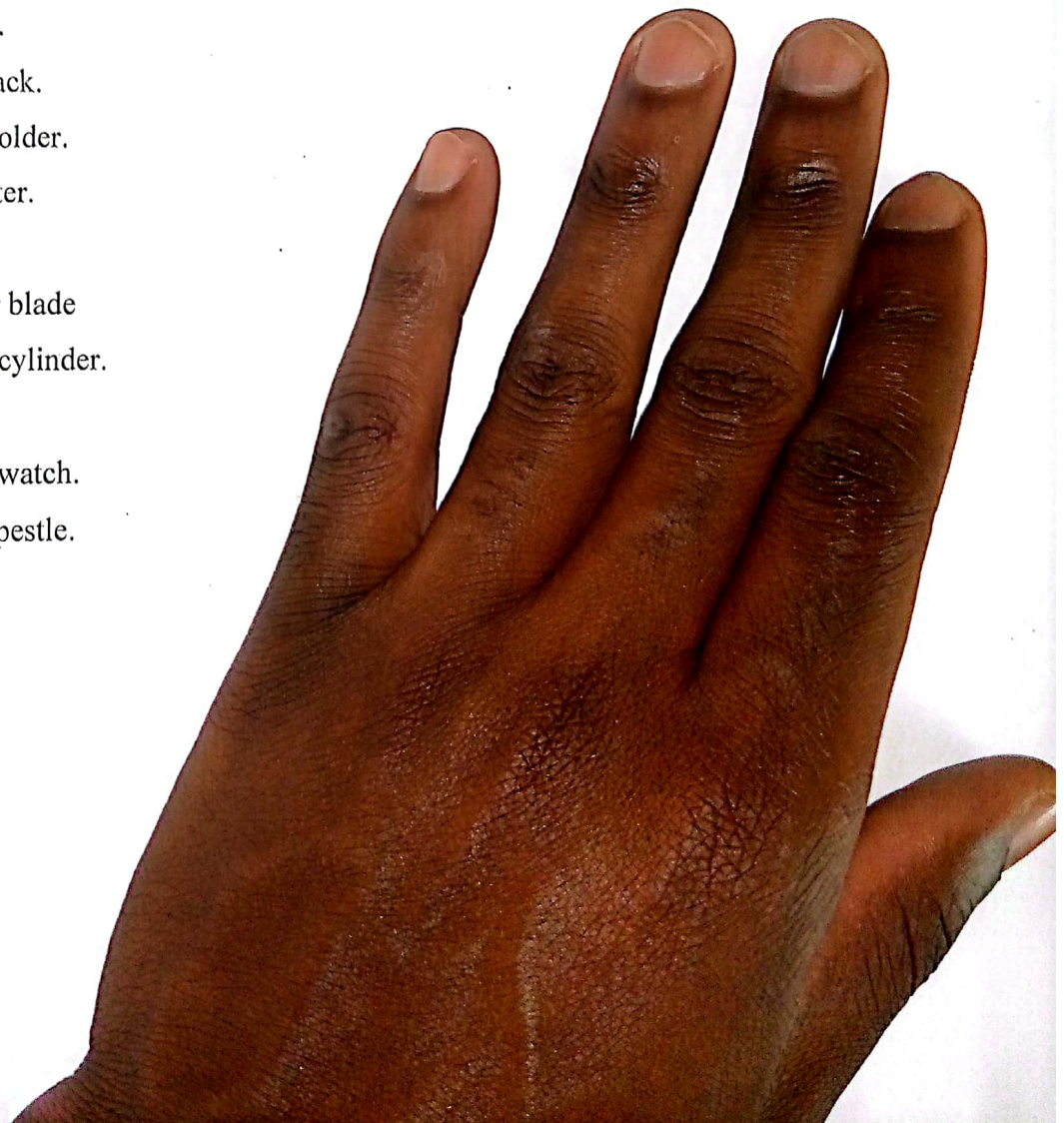
Knife/razor blade

Measuring cylinder.

Dropper.

Stop clock/watch.

Motor and pestle.



Name: _____ Centre/Index No. _____

Signature: _____

553/3
BIOLOGY
(Practical)
Paper 3
Aug. 2024
2 ½ hours



TORORO ARCHDIOCESE EXAMINATIONS BOARD
Uganda Certificate of Education
MOCK EXAMINATIONS, 2024
BIOLOGY
(Practical)

Paper 3

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 are to be inserted in the booklet.

*Work on additional sheets will **not** be scored.*

FOR EXAMINERS' USE ONLY		
ITEM	SCORE (S)	EXAMINER'S SIGNATURE
1		
2		

Turn Over

Item 1.

Jane observed that her 3-year-old daughter has swollen abdomen, legs and joints, low appetite, diarrhoea, wasted muscles, and frequently falls sick but she did not know the cause. She decided to take her child to a clinic where the doctor revealed to her that the child's condition is due to their daily diet lacking some of the food nutrients. He recommended a diet to be given to the girl daily in order to improve her health condition.

You are provided with solution **G**, which is an extract from the child's daily diet and solution **H**, which is an extract from the doctor's recommended diet.

Task

Task
Carryout an investigation on solutions **G** and **H** to determine the food nutrients present in each and advice Jane why she should take the doctor's recommendation.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

Ítem 2.

Mark rears rabbits in his farm. He normally moves around his gardens to collect two feed types for his animals. But he always dumps the wastes and remains of feeds from the animal houses in a nearby pit. Due to a long dry spell, it was difficult for him to get the feeds because most plants had dried. However, he was able to get one of the plants he collects as feeds growing in the pit.

Specimen **P** and **Q** are the two feed types that Mark usually collects to feed his rabbits.

Task.

- (a) With reasons, identify which of the feed types was able to grow in the pit.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or printed text on the paper.

(b) Using structural features, explain how specimen P is able to survive in its habitat.

(c) Carefully remove one leaf from specimen Q, draw and label.

END