

353/3

Biology

Practical

Paper 3

July – August 2025

ADVANCE INSTRUCTIONS



UGANDA MUSLIM TEACHERS' ASSOCIATION

UMTA JOINT MOCK EXAMINATIONS – 2025

Uganda Certificate of Education

Biology Paper 3

CONFIDENTIAL

In addition to the reagents and apparatus found in an ordinary Biology Laboratory, each candidate should be provided with:

- Solution A = 0.00M sucrose solution
- Solution B = 0.6M sucrose solution
- Large sized Irish potato labelled X
- Humerus bone labelled Y
- Lumbar vertebra labelled Z
- Reagents for food tests
- 2 Petridishes
- 2 boiling tubes
- Uniform Cork borer
- Knife and razorblade
- Ruler

END

553/2

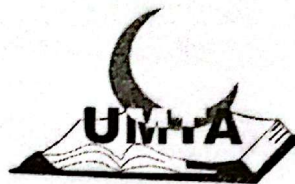
Biology

Practical

Paper 2

July – August 2025

ADVANCE INSTRUCTIONS



UGANDA MUSLIM TEACHERS' ASSOCIATION

UMTA JOINT MOCK EXAMINATIONS – 2025

Uganda Certificate of Education

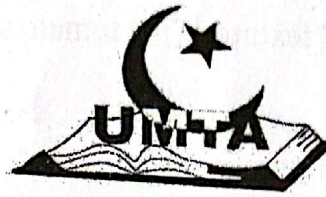
Biology Paper 2

CONFIDENTIAL

In addition to the reagents and apparatus found in an ordinary Biology Laboratory, each candidate should be provided with:

- Solution K = 2% egg albumen solution, made by dissolving egg albumen in water
- Solution R = 1% Pepsin solution
- Solutions A = dilute hydrochloric acid
- B = dilute sodium hydroxide solution
- Black jack fruit labelled X
- Bean pod fruit labelled W
- Orange fruit labelled Z
- Ripe mango fruit labelled Y
- Reagents for food tests
- Thermometer
- Plastic Beaker
- Hot water

553/3
Biology
Paper 3
July – August 2025
2 ½ Hours



UGANDA MUSLIM TEACHERS' ASSOCIATION
UMTA JOINT MOCK EXAMINATIONS – 2025
Uganda Certificate of Education
Biology
Paper 3
2 Hours 30 Minutes

NAME.....INDEX NO.....

SCHOOL.....SIGN.....

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	Examiner's initials
1		
2		
Total		

(iii) Results of the investigation.

(iv) Analysis and explanation of results suggesting the best fertilizer that would cause elongation of the tomato stem tissues.

Item 2.

Peter had an accident that left him terribly injured and unable to move his fore limbs and the back. From the medical examination, X-ray scans showed fractures in one of the bones of the fore limbs and the lower back, and so he was admitted for a long-time undergoing treatment.

Specimens Y and Z were obtained from the same animal and are similar to the ones in Peter's body that the X-ray scan showed to be injured.

Task

(a) Identify with reasons the kind of bones **Y** and **Z** injured in Peter's body.

(b) Explain how the specimen obtained from the fore limb is able to perform its functions in Peter's body.

(c) Draw and label a suitable view of specimen Z.

END