

Candidate's Name:

Index Number: Signature:

553/3

BIOLOGY

PRACTICAL

Paper 3

July/Aug. 2024

2½ hours



ASSHU – KASESE JOINT EXAMINATIONS BOARD (AKJEB)

MOCK EXAMINATIONS

Uganda Certificate of Education

BIOLOGY PRACTICAL

Paper 3

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

*This Paper consists of **two** examination items.*

*Answer **all** 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.*

*Answers **must** be written in the spaces provided.*

No additional sheets of writing paper are to be inserted in the booklet.

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

For Examiners' Use Only		
Item	Score	Examiner's Initial
1		
2		
Total		

Turn over

Item 1

Many Youth living in urban areas eat fried chips. The people selling them face a problem of preserving chips in case they slice/chop potatoes in excess. Some chips fryers have discovered methods of preservation by keeping them in salty water. However, they don't know the right salty solution to use.

Task

- (a) You are provided with specimen A and salt solutions O, P, Q and R of varying concentrations. Plan and design an experiment that you can use to advise the chips fryers the best solution to use.

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

[illegible]

(b) (i) Name the natural process responsible for the results above.

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(ii) Explain the significance of the physiological process identified in b(i) above to plants.

[illegible]

Item 2

A farmer in Mubuku irrigation scheme, recently found his garden of specimen K with new weeds that were not there previously and this has led to a great decline in the yields of specimen K. However, he says that the neighbouring gardens had the weeds right from the previous seasons. Specimen L and M were obtained from the weeds.

(a) With reasons, identify specimens L and M.

[illegible]

[illegible][illegible]

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(d) Cut specimen K longitudinally, draw and label one half. State your magnification.