

553/2 Inst. Sch.
Biology Practical
Instructions
Jul./Aug. 2026



ALLIANCE JOINT EXAMINATIONS BOARD

Uganda Certificate of Education BIOLOGY PRACTICAL INSTRUCTIONS

553/2 Inst. Sch.
July/August, 2026

CONFIDENTIAL:

Great care should be taken that the information given below does not reach the candidates either directly or indirectly.

INSTRUCTIONS FOR PREPARING SPECIMENS AND APPARATUS

The candidates will be instructed **not** to write out a detailed description of the apparatus and the specimens. The teacher responsible for preparing the apparatus **must** give details (on the report form attached) about some of the items or apparatus they have supplied to the candidates. The form should be signed by the invigilator, the teacher responsible for preparing the apparatus and the specimens and the head teacher.

[**N.B.** The head teacher **must** ensure that the teacher responsible for preparing the apparatus hands in their procedure and trial results, properly sealed in a separate envelope and **firmly** fastened (attached) to the candidates' scripts envelope(s).]

TURN OVER

Item one

Each candidate should be provided with:

15cm³ of Solution S Enzyme extract (Pectinase solution).

30cm³ of Liquid Q (Raw, cloudy passion fruit juice extract)

15cm³ of Solution W (0.01M Hydrochloric acid)

15cm³ of Solution X (0.05M Sodium hydrogen Carbonate)

15cm³ of Solution Y (Citrate Buffer Solution). Alternative, Sodium Hydrogen Sulfate solution of 0.01M

1 test tube rack with 6 test tubes

2 measuring cylinder (10ml)

1 dropper

1 stop clock / stopwatch

Item two

Specimen K: A freshly killed or well-preserved adult worker honeybee (*Apis mellifera*) provided in a small petri dish.

Specimen F: A fresh, intact insect-pollinated flower showing clearly visible anthers and a sticky stigma (e.g., *Hibiscus*, *Crotalaria*, or a fresh Citrus/orange flower).

1 hand lens (magnification at least x10)

1 surgical blade

END