



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
International General Certificate of Secondary Education

**BIOLOGY**

**0610/05**

Paper 5 Practical Test

**May/June 2008**

CONFIDENTIAL INSTRUCTIONS

**1 hour**

**Great care should be taken to ensure that any confidential information given does not reach the candidates either directly or indirectly.**

If you have any problems or queries regarding these Instructions, please contact CIE

by email [International@cie.org.uk](mailto:International@cie.org.uk)

by phone +44 1223 553554,

by fax +44 1223 553558

stating the Centre number, the nature of the query and the syllabus number quoted above.

\* 2 6 8 0 6 8 4 5 7 8 \*

This document consists of **6** printed pages and **2** blank pages.



**READ THESE INSTRUCTIONS FIRST**

These instructions give details of the apparatus, reagents and specimens required by each candidate for the experiment in this paper. A summary of the questions that will be presented to candidates is included, where appropriate, to allow the teacher to test the apparatus appropriately. **No access to the question paper is permitted in advance of the examination.**

It is assumed that the ordinary apparatus of a science laboratory will be available, including a supply of purified water (distilled or deionised).

If arrangements are made for different sessions for different groups of candidates, care must be taken to ensure that the different groups of candidates are effectively isolated so that **no information passes between them.**

**All specimens should carry only the code letters and numbers as indicated and their identity should not be revealed to the candidates.**

Supervisors should ensure that all specimens have the correct identity attached to the specimen and that these are **not** removed during the examination.

If a candidate breaks any of the apparatus, or loses any of the material supplied, the matter should be rectified and a note made in the Supervisor's Report.

Supervisors are advised to remind candidates that **all** substances in the examination should be treated with caution. Pipette fillers and safety goggles should be used where necessary.

In accordance with COSHH (Control of Substances Hazardous to Health) Regulations, operative in the UK, a hazard appraisal of the examination has been carried out.

The following codes are used where relevant.

**C** = corrosive substance

**F** = highly flammable substance

**H** = harmful or irritating substance

**O** = oxidising substance

**T** = toxic substance

**Question 1**

Each student will need:

- (i) two similar containers e.g. plastic drinking cups (not polystyrene) or glass beakers (250 cm<sup>3</sup>) or other suitable containers.

The containers should be marked with a safety upper limit for the water approximately 2 cm below the rim.

- (ii) to cover the containers: two pieces of cardboard, polystyrene tiles or other suitable material to rest on the top of the containers. Each cover (lid) should have a hole into which candidates can insert a thermometer.
- (iii) one thermometer (0 – 110 °C)
- (iv) two paper towels and four rubber bands to fasten paper around containers
- (v) a beaker containing cold water
- (vi) one dropping pipette
- (vii) stop clock or view of a clock
- (viii) supply of hot water when needed (70 °C)

**Safety warning** – candidates should be made aware of the hot water at 70 °C.

The containers will need to be filled up to the safety level limit mark (see (ii)) when candidates indicate that they are ready to start recording.

**Question 2**

- (i) half a tomato cut longitudinally to pass through the point of attachment (scar),  
labelled **S1**.
- (ii) half an apple or pear cut longitudinally to be labelled **S2**.  
**NB: seeds need to be visible.**  
**[this fruit to be identified in the examiner's report]**





This form should be completed and sent to the examiner with the scripts

**REPORT ON PRACTICAL BIOLOGY**

**IGCSE**

**May/June Session 2008**

*The Supervisor or teacher responsible for the subject should provide the following information.*

- 1 Was there any difficulty experienced in providing necessary material? If so, give brief details. Please identify the fruit used in question 2 for **S2**.

Identity of **S2** fruit.



- 2 Did the candidates experience any difficulty during the course of the examination? If so, give brief particulars. Reference should be made to:
  - (a) difficulties arising from specimens or materials;
  - (b) accidents to specimens or materials;
  - (c) any other information that is likely to assist the Examiner, especially if this cannot be discovered from the scripts.

- **Information that applies to all candidates should be given only once.**

Other cases of individual hardship e.g. illness or disability, should be reported direct to CIE on the normal 'Special Consideration Form' as detailed in Part 6 of the Handbook for Centres.

- 3 A plan of work benches, giving details of the candidate numbers of the places occupied by candidates for each session, must be enclosed with the scripts. The space below can be used for this, or it may be on separate paper.

**Declaration** (to be signed by the Principal)

The preparation of this practical examination has been carried out so as to maintain fully the security of this examination.

Signed .....

Name (in block capitals) .....

Centre number .....

Centre name .....

If scripts are required by CIE to be dispatched in more than one envelope, it is essential that a copy of the relevant Supervisor's report and the appropriate seating plan(s) are inside **each envelope**.