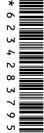


UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

BIOLOGY 0610/52

Paper 5 Practical Test May/June 2012

CONFIDENTIAL INSTRUCTIONS



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 Cambridge

by email 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.

READ THESE INSTRUCTIONS FIRST

These instructions give details of the apparatus required by each candidate for each experiment in this paper. A summary of the questions that will be presented to the candidates is included, where appropriate, to allow the Biology teacher to test the apparatus appropriately if necessary. **Testing must be done out of sight of all candidates. No access to the question paper is permitted in advance of the examination**. Centres are reminded that candidates are expected to follow the instructions on the question paper and record all their results. They will not be penalised if these results are not what they expect.

The Supervisor should make sure that the Supervisor's Report is fully completed and a copy is enclosed with each packet of scripts.

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 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 N = harmful to the environment

Centres are reminded that they are **not** permitted to open the question paper envelopes before the examination.

If there are any difficulties with any aspect of setting up this practical examination that the Centre is not able to resolve, it is essential for Centres to contact the Product Manager as soon as possible by **email** to international@cie.org.uk, by **fax** to +44 1223 553558 or by **phone** to +44 1223 553554.

Question 1

Each candidate should be provided with:

- (i) 2 identical large test-tubes
- (ii) thermometer (-10 °C to 110 °C)
- (iii) two paper tissues / towels cut to approximately 15 cm × 10 cm
- (iv) two small elastic bands
- (v) view of a clock or timer that allows a candidate to time 10 minutes accurately
- (vi) means of supporting two large test-tubes (without touching) e.g. test-tube rack or two containers
- (vii) a supply of hot water approximately 65 °C, in a beaker (200 cm³ in total) Candidates will indicate when this is needed.
- (viii) ruler (with a mm scale)
 - (ix) means of labelling a test-tube

The Supervisor (**not** the Invigilator) is expected to carry out the practical aspects of **Question 1** and record their results in the space provided in the Supervisor's Report. This must be done during the examination, using the same equipment as the candidates but out of sight of the candidates.

Question 2

Each candidate should be provided with:

- (i) one open, regular dicotyledonous insect-pollinated flower
 This should be presented with the cut stalk in a beaker of water.

 (A member of the Rosaceae, Ranunculaceae or other family can be used. This flower must have only 5 petals).
 Supervisors must provide in the Supervisor's Report the identity and an image (ideally photograph) of the flower.
- (ii) white tile
- (iii) hand lens (at least X6)

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This form should be completed and sent to the Examiner with the scripts.

REPORT ON PRACTICAL BIOLOGY

IGCSE

May/June Session 2012

The Supervisor or Teacher responsible for the subject should provid	la tha fallaccina infamaatiau
The Subervisor of Teacher responsible for the Subject Should brovia	ie inė ioliowina inlormalior

1116	e Supervisor of Teacher responsible for the subject should provide the following information.
1	Was any difficulty experienced in providing necessary materials? If so, give brief details.
2	Give details of any difficulties experienced by particular candidates, giving names and candidate numbers. Reference should be made to:
	(a) difficulties with specimens or materials;
	(b) accidents to apparatus or materials;
	(c) any other information that is likely to assist the Examiner, especially if this cannot be discovered from the scripts.
	Other cases of individual hardship, e.g. illness or disability, should be reported direct to Cambridge on the normal 'Special Consideration Form' as detailed in the Handbook for Centres.
3	During the examination, the Supervisor should, out of sight of the candidates , carry out Question 1 , using the same equipment as the candidates. Results should be recorded in the space on page 8 (not on a spare Question Paper). The Invigilator should not carry out Question 1 .

	Please record the range of the room temperature in the laboratory during the examination.	
	For Question 2 , please identify the flower and attach a photograph. If a photograph is not possible, please attach a detailed line drawing.	
	Identification of flower	
4	A plan of work benches, giving details of the candidate numbers of the places occupied by the candidates for each session must be enclosed with the scripts.	
De	claration (to be signed by the Principal)	
	e preparation of this practical examination has been carried out so as to maintain fully the security he examination.	
	Signed	
	Name (in block capitals)	
	Centre number	
Cei	ntre name	
If scripts are required to be despatched in more than one packet it is essential that a copy of the relevant Supervisor's Report and the appropriate seating plan(s) are inside each packet .		

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