

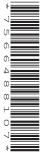
Cambridge IGCSE[™]

BIOLOGY 0610/52

Paper 5 Practical Test

February/March 2020

CONFIDENTIAL INSTRUCTIONS



This document gives details of how to prepare for and administer the practical exam.

The information in this document and the identity of any materials supplied by Cambridge International are confidential and must NOT reach candidates either directly or indirectly.

The supervisor must complete the report at the end of this document and return it with the scripts.

INSTRUCTIONS

If you have any queries regarding these confidential instructions, contact Cambridge International stating the centre number, the syllabus and component number and the nature of the query.
 email info@cambridgeinternational.org
 phone +44 1223 553554

This document has 8 pages. Blank pages are indicated.

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General information about practical exams

Centres must follow the guidance on science practical exams given in the Cambridge Handbook.

Safety

Supervisors must follow national and local regulations relating to safety and first aid.

Only those procedures described in the question paper should be attempted.

Supervisors must inform candidates that materials and apparatus used in the exam should be treated with caution. Suitable eye protection should be used where necessary.

The following hazard codes are used in these confidential instructions, where relevant:

C corrosive
 HH health hazard
 F flammable
 MH moderate hazard
 T acutely toxic
 O oxidising

N hazardous to the aquatic environment

Hazard data sheets relating to substances used in this exam should be available from your chemical supplier.

Before the exam

- The packets containing the question papers must **not** be opened before the exam.
- It is assumed that standard school laboratory facilities, as indicated in the *Guide to Planning Practical Science*, will be available.
- Spare materials and apparatus for the tasks set must be available for candidates, if required.

During the exam

- It must be made clear to candidates at the start of the exam that they may request spare materials and apparatus for the tasks set.
- Where specified, the supervisor must perform the experiments and record the results as instructed.
 This must be done out of sight of the candidates, using the same materials and apparatus as the candidates.
- Any assistance provided to candidates must be recorded in the supervisor's report.
- If any materials or apparatus need to be replaced, for example, in the event of breakage or loss, this must be recorded in the supervisor's report.

After the exam

- The supervisor must complete a report for each practical session held and each laboratory used.
- Each packet of scripts returned to Cambridge International must contain the following items:
 - the scripts of the candidates specified on the bar code label provided
 - the supervisor's results relevant to these candidates
 - the supervisor's reports relevant to these candidates
 - seating plans for each practical session, referring to each candidate by candidate number
 - the attendance register.

Specific information for this practical exam

During the exam, the supervisor (NOT the invigilator) must do the experiment in Question 1 and record their results on a spare copy of the question paper, clearly labelled 'supervisor's results'.

Question 1

Each candidate should be provided with:

hazard	materials and apparatus	quantity per candidate
	beetroot cylinders	2
	30 cm transparent ruler with a mm scale (also required for question 2)	1
	white tile	1
	scalpel	1
	large test-tubes	2
	stoppers to fit large test-tubes	2
	empty 250 cm ³ beaker labelled hot water	1
	supply of hot water at 80 °C Candidates will raise their hand when they are ready for hot water.	100 cm ³
	250 cm ³ beaker labelled cold water containing approximately 100 cm ³ water at approximately 20 °C	1
	thermometer, -10 °C to +110 °C at 1 °C graduations	1
	test-tube rack to hold large test-tubes	1
	empty 100 cm ³ beaker	1
	stop-clock	1
	paper towels	5
	gloves	1 pair
	eye protection	1
	permanent marker pen	1
	forceps	1

Preparation of materials

Beetroot (Beta vulgaris)

The beetroot must be fresh and of a red or purple variety. Cooked beetroot is unsuitable for use in this investigation.

Cut the beetroot using a cork borer with an internal diameter of 8–10 mm, beetroot cylinders must be at least 4 cm in length. Rinse the beetroot cylinders thoroughly in tap water. The beetroot cylinders can be prepared the day before the exam and stored in a covered container in the refrigerator overnight.

Do not allow the beetroot cylinders to dry out.

Beetroot cylinders should be presented to candidates on a white tile and should be covered with a damp paper towel.

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Supervisor's report

Syllabus and component number			/				
Centre number							
Centre name		 	 	 	 	 	
Time of the practical session		 	 	 	 	 	
Laboratory name/number		 	 	 	 	 	

Give details of any difficulties experienced by the centre or by candidates (include the relevant candidate names and candidate numbers).

You must include:

- any difficulties experienced by the centre in the preparation of materials
- any difficulties experienced by candidates, e.g. due to faulty materials or apparatus
- any specific assistance given to candidates.

Declaration

Dec	iarat	1011
1	Eacl	n packet that I am returning to Cambridge International contains the following items:
		the scripts of the candidates specified on the bar code label provided
		the supervisor's results relevant to these candidates
		the supervisor's reports relevant to these candidates
		seating plans for each practical session, referring to each candidate by candidate number
		the attendance register
2	labe	ere the practical exam has taken place in more than one practical session, I have clearly lled the supervisor's results, supervisor's reports and seating plans with the time and laboratory e/number for each practical session.
3		ve included details of difficulties relating to each practical session experienced by the centre y candidates.
4		we reported any other adverse circumstances affecting candidates, e.g. illness, bereavement imporary injury, directly to Cambridge International on a special consideration form.
Sigr	ned .	(supervisor)
Nan	ne (in	block capitals)
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