

Cambridge IGCSE[™]

BIOLOGY 0610/51

Paper 5 Practical Test May/June 2023

CONFIDENTIAL INSTRUCTIONS



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

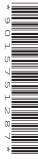
The information in this document and the identity of any materials supplied by Cambridge International are confidential and must NOT reach candidates either directly or indirectly.

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



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 the 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
	10 cm ³ syringe	1
	insoluble modelling clay, plasticine or similar	10 g
	beaker containing yeast suspension, without foam, labelled yeast suspension	30 cm ³
	250 cm ³ measuring cylinder	1
	supply of hot water at approximately 50 °C Candidates will raise their hand when they require hot water. This should be poured directly into their measuring cylinder.	approximately 120 cm ³
	a supply of cold water at approximately 20 °C, in a suitable container labelled cold water	200 cm ³
	waste container to hold at least 250 cm ³ of liquid, labelled waste	1
	thermometer, –10°C to +110°C, with 1°C graduations	1
	glass rod	1
	stop-clock	1
	paper towels	5
	gloves	1 pair
	suitable eye protection	1

Question 2

Each candidate should be provided with:

hazard	materials and apparatus	quantity per candidate
	30 cm ruler with a mm scale	1

Preparation of materials

yeast suspension

Put 50 g of fast-acting yeast and 5 g of sucrose (table sugar is suitable) into enough warm water to make up to 1 dm³. Ensure that the yeast is active and respiring and remove the foam before presenting to candidates.

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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

- 1 Each packet that I am returning to Cambridge International contains all of 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 Where the practical exam has taken place in more than one practical session, I have clearly labelled the supervisor's results, supervisor's reports and seating plans with the time and laboratory name/number for each practical session.
- 3 I have included details of difficulties relating to each practical session experienced by the centre or by candidates.
- 4 I have reported any other adverse circumstances affecting candidates, e.g. illness, bereavement or temporary injury, directly to Cambridge International on a *special consideration form*.

Signed	. (supervisor)
Name (in block capitals)	

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