

Cambridge O Level

BIOLOGY 5090/31

Paper 3 Practical Test

October/November 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.

PapaCambridge

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'.

Apparatus and chemicals for Question 1

Each candidate will require the following materials and apparatus:

- Approximately half a Cavendish banana cut two hours before the exam and left with the cut surface exposed to the atmosphere. The half banana should be long enough to cut four slices each 1 cm wide of about the same diameter. The banana should be fresh, undamaged, yellow and with the skin intact.
- white tile or similar surface
- forceps
- scalpel/solid-edged razor blade/sharp knife for cutting banana

[MH]

- 150 cm³ beaker, or similar container, with approximately 25 cm³ of 0.01 M HC*l* labelled **dilute HC***l*. The depth of acid in the container should be sufficient to fully cover a 1 cm slice of banana.
- wax pencil or waterproof marker
- universal indicator pH paper with colour chart
- stop-watch or sight of a clock with second-hand
- safety spectacles or goggles
- ruler (mm)
- paper towels.

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Supervisor's report

Syllabus and component number		/				
Centre number						
Centre name	 	 	 	 	 	
Time of the practical session	 	 	 	 	 	
Laboratory namo/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 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 <i>special consideration form</i> .
Sigı	ned (supervisor)
Nar	me (in block capitals)
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