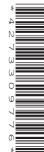


Cambridge Assessment International Education Cambridge Ordinary Level

BIOLOGY 5090/32

Paper 3 Practical Test May/June 2019

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.

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 fax +44 1223 553558

This document consists of **5** printed pages and **3** blank pages.



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 experiments 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.

• 10 cm³ yeast suspension in a small beaker, labelled **yeast suspension**

[MH]

- 10 cm³ 10 volume hydrogen peroxide in a small beaker, labelled **hydrogen peroxide** (3% hydrogen peroxide solution is equivalent to 10 volume hydrogen peroxide)
- two 5 cm³ syringes (without needles)
- 50 cm³ measuring cylinder
- stop-clock or sight of clock with second-hand
- stirring rod
- ruler (cm/mm)
- paper towels.

The suggested concentration for the yeast suspension is 10 g dried yeast to 100 cm³ distilled water.

The yeast suspension should be made up approximately 30 minutes prior to the start of the exam. This should be kept at room temperature.

In advance of the exam, to check that this concentration is appropriate, the supervisor should carry out the following trial:

- place 5 cm³ of yeast suspension in a 50 cm³ measuring cylinder
- add 5 cm³ hydrogen peroxide solution to this yeast suspension
- after 5 minutes the total volume (including foam) should measure between 20-40 cm³
- if the total volume after 5 minutes is different, the supervisor should adjust the concentration of the yeast suspension accordingly.

Apparatus for Question 2

ruler (cm/mm)

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Supervisor's report

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

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		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 elled the supervisor's results, supervisor's reports and seating plans with the time and practory name/number for each practical session.
3		ve included details of difficulties relating to each practical session experienced by the centre y candidates.
4		ve reported any other adverse circumstances affecting candidates, e.g. illness, bereavement emporary injury, directly to Cambridge International on a <i>special consideration form</i> .
Sigi	ned .	(supervisor)
Nar	ne (ir	n block capitals)
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