

Cambridge IGCSE[™]

CHEMISTRY

Paper 5 Practical Test

0620/52

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

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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

MH moderate hazard

HH health hazard

T acutely toxic

F flammable

- 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 Questions 1 and 2 and record the results on a spare copy of the question paper, clearly labelled 'supervisor's results'.

Materials and apparatus for Question 1

Each candidate will require the following materials and apparatus. Labels do **not** need to include concentrations.

hazard	azard materials and apparatus		label
	aqueous potassium iodate of concentration 0.05 mol/dm ³	150 cm ³	aqueous potassium iodate for Question 1
[MH] aqueous sodium metabisulfite, Na ₂ S ₂ O ₅ , of concentration 0.05 mol/dm ³ . This solution should be freshly made up in distilled water		50 cm ³	aqueous sodium metabisulfite for Question 1
	1% starch solution	50 cm ³	starch solution for Question 1
	25 cm ³ measuring cylinder	2	
	10 cm ³ measuring cylinder	2	
	100 cm ³ beaker	1	
	glass rod for stirring		
	stop-clock or timer which can measure to an accuracy of 1s		
	access to water and distilled water		
	teat pipettes		
N.B. Small amo	bunts of SO ₂ [C][T] , which can cause respiratory	distress in sor	ne people, may be

produced. The laboratory must be well ventilated.

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During the exam, the supervisor (NOT the invigilator) must do the experiments in Questions 1 and 2 and record the results on a spare copy of the question paper, clearly labelled 'supervisor's results'.

Materials and apparatus for Question 2

Each candidate will require the following materials and apparatus. Labels do **not** need to include concentrations.

hazard	materials and apparatus	per candidate	label	
	solid zinc carbonate in a stoppered tube	1 g	solid Q	
	solid sodium iodide in a stoppered tube	1 g	solid R	
[MH]	dilute sulfuric acid of concentration 0.5 mol/dm ³		dilute sulfuric acid for Question 2	
[MH]	aqueous bromine of concentration 0.1 mol/dm ³ in a stoppered test-tube	1 cm ³	aqueous bromine for Question 2	
[C]	aqueous sodium hydroxide of concentration 1 mol/dm ³			
[C]	dilute nitric acid of concentration 1 mol/dm ³			
[MH][N]	silver nitrate solution of a concentration suitable to give a positive result in a halide test			
	red and blue litmus paper			
[MH]	[MH] limewater and apparatus to test for carbon dioxide			
	access to water and distilled water			
	10 cm ³ measuring cylinder	1		
	boiling tubes	3		
	stopper to fit a boiling tube	1		
	rack of test-tubes including one hard-glass test-tube			
	test-tube holder	1		
	apparatus to carry out a flame test			
	apparatus to carry out filtration			
	spatula			
	wooden splints			
	Bunsen burner and means to light it			
	dropping pipettes			



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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 I	Each packet that I	am returning to	Cambridge International	contains the following items:
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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 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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