

# Cambridge IGCSE<sup>™</sup>

### CHEMISTRY

Paper 5 Practical Test

0620/05

For examination from 2023

SPECIMEN 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 experiments in Questions 1 and 2 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.

hazard	materials and apparatus	per candidate	label
	aqueous sodium hydroxide of concentration $0.10 \text{ mol} / \text{dm}^3$	50 cm <sup>3</sup>	solution A
	aqueous sodium hydroxide of concentration $0.05 \text{ mol} / \text{dm}^3$	50 cm <sup>3</sup>	solution B
	dilute hydrochloric acid of concentration 0.15 mol / dm <sup>3</sup>	100 cm <sup>3</sup>	hydrochloric acid for Question 1
[F][HH][MH]	thymolphthalein indicator		
	access to water and distilled water		
	25 cm <sup>3</sup> measuring cylinder	1	
	250 cm <sup>3</sup> conical flask	1	
	50 cm <sup>3</sup> burette	1	
	stand and clamp for burette	1	
	white tile	1	
	small funnel to fill burette	1	
	dropping pipettes		

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'.

#### Apparatus and chemicals 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		
[MH]	solid iron(II) sulfate heptahydrate, FeSO <sub>4</sub> •7H <sub>2</sub> O, in a stoppered tube	2 g	solid C		
[МН]	solid calcium chloride hexahydrate, CaC $l_2$ •6H <sub>2</sub> O, in a stoppered tube	2 g solid D			
[MH] [N]	aqueous ammonia of concentration 1 mol / $dm^3$				
[C]	dilute nitric acid of concentration 1 mol/dm <sup>3</sup>				
[MH][N]	aqueous silver nitrate of a suitable concentration to give a positive halide ion test				
[C]	aqueous sodium hydroxide of concentration 1 mol / $dm^3$				
	aqueous barium nitrate of a suitable concentration to give a positive sulfate ion test				
	access to water and distilled water				
	universal indicator paper and colour chart				
	10 cm <sup>3</sup> measuring cylinder	1			
	boiling tube with stopper to fit	2			
	rack of test-tubes				
	hard-glass test-tube	1			
	test-tube holder	1			
	spatulas				
	wooden splints				
	dropping pipettes				
	Bunsen burner and means to light it				
	apparatus to conduct a flame test				

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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 that practical session.
- 3 I have included details of difficulties relating to this 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	
Name (in block capitals)	
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