



Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

CHEMISTRY

0620/53

Paper 5 Practical Test

May/June 2018

CONFIDENTIAL INSTRUCTIONS

Great care should be taken to ensure that any confidential information given does not reach the candidates either directly or indirectly.

READ THESE INSTRUCTIONS FIRST

The teacher responsible for preparing the examination is **not** allowed to consult the Question Paper before the examination. Teachers should, as part of the preparation of the examination requirements, carry out any tests indicated on pages 2 and 3 in order to satisfy themselves that the supplied materials are satisfactory.

The Supervisor's Report to be included with the scripts is given on pages 7 and 8. Please detach and enclose it with the scripts. If scripts are despatched in more than one envelope, it is essential that a copy of the Supervisor's Results and of the Supervisor's Report are sent inside **each** envelope.

More material may be issued if required, without penalty, but this should **not** be necessary.

Supervisors are advised to remind candidates that **all** substances in the examination should be treated with caution. Suitable eye protection should be provided.

In accordance with COSHH (Control of Substances Hazardous to Health) Regulations, operative in the UK, a hazard appraisal of the examination has been carried out.

Attention is drawn, in particular, to certain materials used in the examination. The following codes are used 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 should be available from your suppliers.

If you have any queries regarding these Confidential Instructions, please contact Cambridge stating the Centre number, the nature of the query and the syllabus number quoted above.

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The syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of **8** printed pages.

Question 1

Each candidate will require the following chemicals and apparatus. Labels must **not** include concentrations.

- [C] (a) 150 cm³ of aqueous sodium hydroxide of concentration 1.0 mol/dm³ labelled **aqueous sodium hydroxide for Question 1**
- (b) 100 cm³ of dilute hydrochloric acid of concentration 2.0 mol/dm³ labelled **acid R**
- [C] (c) 100 cm³ of dilute sulfuric acid of concentration 2.0 mol/dm³ labelled **acid S**
- (d) access to water and distilled water
- (e) 50 cm³ measuring cylinder
- (f) 250 cm³ beaker
- (g) 50 cm³ burette with stand and clamp
- (h) funnel for filling burette
- (i) stirring thermometer, -10 °C to +110 °C at 1 °C graduations
- (j) polystyrene cup
- (k) teat pipettes

Question 2

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

[C] (a) 8 cm³ of aqueous sodium hydroxide of concentration 1 mol/dm³ in a stoppered test-tube labelled **solution T**

[F][MH] (b) 3 cm³ of propanone in a stoppered test-tube labelled **liquid U**

[MH] (c) access to solid ammonium chloride

(d) aqueous chromium(III) chloride of concentration 0.1 mol/dm³

[N] (e) 10 cm³ of aqueous iodine in potassium iodide (0.25 g of iodine, I₂, and 0.8 g of potassium iodide, KI, dissolved in distilled water to give 10 cm³ of solution)

[C] (f) aqueous sodium hydroxide of concentration 1 mol/dm³

[MH][N] (g) aqueous zinc sulfate of concentration 0.1 mol/dm³

(h) distilled water

(i) pH indicator papers and chart

(j) red and blue litmus paper

(k) 10 cm³ measuring cylinder

(l) watch glass

(m) splints

(n) apparatus for a flame test

(o) Bunsen burner and matches

(p) rack of test-tubes

(q) 2 × boiling tubes

(r) stopper to fit test-tubes

(s) test-tube holder

(t) teat pipettes

(u) spatula

The Supervisor's Report is on pages 7 and 8.

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This form must be completed and returned in the envelope with the scripts.

Supervisor's Report

1 (a) Supervisor's Results

It is recommended that the Supervisor should be a chemistry teacher.

The Supervisor is asked to carry out the experiments in Questions 1 and 2 and to record the results on a spare copy of the Question Paper clearly labelled 'Supervisor's Results'. Failure to enclose these results and this report form may lead to candidates being unavoidably penalised.

(b) The candidate numbers of candidates in each session were:

First session

Second session



2 The Supervisor is invited to report details of any difficulties experienced by candidates giving names and candidate numbers. The report should include reference to:

- (a) any general difficulties encountered in making preparations for the examination
- (b) difficulties due to faulty apparatus or materials
- (c) accidents to apparatus or materials.

Other cases of individual hardship, e.g. illness, temporary disability, should be reported directly to Cambridge on the Special Consideration form.

Declaration (to be signed by the Supervisor)

The preparation of this practical examination has been carried out so as to maintain fully the security of the examination.

Name of Centre

Centre number

Signed

Name (in block capitals) (Supervisor)

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