



Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

CHEMISTRY 0620/52

Paper 5 Practical Test October/November 2017

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.

email info@cie.org.uk phone +44 1223 553554 fax +44 1223 553558

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 apparatus and chemicals.

- (a) 50 cm³ measuring cylinder
- **(b)** stirring thermometer, -10 °C to +110 °C at 1 °C graduations
- (c) polystyrene cup
- (d) 250 cm³ beaker
- (e) samples in stoppered test-tubes of

[MH] 2g of anhydrous calcium chloride, labelled 2.0 g of solid S,

[MH] 3 g of anhydrous calcium chloride, labelled 3.0 g of solid S,

[MH] 5g of anhydrous calcium chloride, labelled 5.0 g of solid S.

The anhydrous calcium chloride should be newly purchased.

(f) samples in stoppered test-tubes of

[MH] 2g of ammonium chloride, labelled 2.0 g of solid T,

[MH] 3g of ammonium chloride, labelled 3.0g of solid T,

[MH] 4g of ammonium chloride, labelled 4.0g of solid T,

[MH] 6 g of ammonium chloride, labelled 6.0 g of solid T.

(g) access to water and distilled water

Question 2

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

- [MH] (a) 0.5 g of anhydrous sodium carbonate, Na₂CO₃, in a stoppered test-tube, labelled solid U
 - [T] (b) 0.5 g of barium chloride, BaC l_2 .2H $_2$ O, in a stoppered test-tube, labelled solid W
 - (c) distilled water
 - (d) apparatus for a flame test
 - (e) rack of six test-tubes
 - **(f)** stopper to fit test-tubes
 - [C] (g) dilute nitric acid of concentration 1 mol/dm³
- [MH] (h) limewater and apparatus used to test for carbon dioxide
 - (i) red and blue litmus paper
- [MH][N] (j) aqueous silver nitrate of sufficient concentration to give a positive halide test
 - (k) dilute hydrochloric acid of concentration 1 mol/dm³
 - (I) 10 cm³ measuring cylinder
 - (m) Bunsen burner and matches
 - (n) teat pipettes
 - (o) splints
 - (p) spatula

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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)

of the examination.
Name of Centre
Centre number
Signed

Name (in block capitals)(Supervisor)

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