



## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

Original Com

CHEMISTRY 0620/05

Paper 5 Practical Test

October/November 2007

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 page 2 in order to satisfy themselves that the supplied materials are satisfactory.

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

More material may be issued if required, without penalty, but this should not be necessary. Safety spectacles may be provided if considered necessary.

Supervisors are advised to remind candidates that all substances in the examination should be treated with caution. Please also see under 'General Apparatus' on the use of pipette fillers and safety goggles.

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 substance

**F** = highly flammable substance

**H** = harmful or irritating substance

**O** = oxidising substance

T = toxic substance

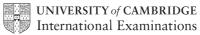
Hazard data sheets should be available from your suppliers.

If you have any queries regarding these Instructions, please contact CIE

by e-mail: <a href="mailto:lnternational@cie.org.uk">lnternational@cie.org.uk</a>, by phone: +44 1223 553554, by fax: +44 1223 553558.

stating the Centre number, the nature of the query and the syllabus number quoted above.

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



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## For Question 1

Each candidate will need the following:

- (a) one 50 cm<sup>3</sup> measuring cylinder;
- **(b)** one stirring thermometer, covering the range 0°C to 100°C, graduated in °C;
- (c) one or more polystyrene cups and a 250 cm<sup>3</sup> beaker;
- [C] (d) 250 cm<sup>3</sup> of hydrochloric acid of concentration 2 mol/dm<sup>3</sup>;
  - (e) access to a timer/stopclock or sight of clock with a second hand;

Stoppered test-tubes containing the following solids, labelled as such.

- (f) 2.5 g of small marble chips;
- (g) 2.5 g of powdered calcium carbonate;
- [C] (h) 1.5 g of calcium oxide lumps;
- [C] (i) 1.5 g of powdered calcium oxide from a freshly opened jar.

When these solids are added to 50 cm<sup>3</sup> of the hydrochloric acid there should be a measurable temperature rise.

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## For Question 2

Each candidate will need the following:

- [C] (a) a stoppered test-tube, labelled P, containing about 8 cm<sup>3</sup> of 1 mol/dm<sup>3</sup> hydrochloric acid;
- [C] (b) a stoppered test-tube, labelled Q, containing about 8 cm<sup>3</sup> of 1 mol/dm<sup>3</sup> sodium hydroxide;
- [C] (c) a stoppered test-tube, labelled R, containing about 8 cm<sup>3</sup> of 1 mol/dm<sup>3</sup> ethanoic acid;
- [C] (d) a stoppered test-tube, labelled S, containing about 8 cm<sup>3</sup> of 1 mol/dm<sup>3</sup> nitric acid;

Candidates will require access to the following for the qualitative analysis:

- (e) rack of test-tubes;
- (f) four pieces of magnesium ribbon, each approximately 5 cm in length;
- (g) Bunsen burner;
- (h) splints;
- (i) pH indicator paper and chart;
- (j) limewater;
- (k) teat pipettes;
- (I) distilled water;
- (m) spatula;
- (n) solid anhydrous sodium carbonate (one spatula measure);
- (o) silver nitrate solution of sufficient concentration to give a positive chloride test;
- (p) 0.1 mol/dm<sup>3</sup> iron(II) sulphate solution.

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THE SUPERVISOR'S REPORT IS ON PAGES 7 AND 8

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

## REPORT ON PRACTICAL CHEMISTRY

## October/November 2007

## (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

- www.PapaCambridge.com 2 The Supervisor is invited to report details of any difficulties experienced by candi 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 direct to UCLES on the normal Application for Special Consideration form.

NAME O	F CENTRE
CENTRE	NUMBER
	SIGNED
	Supervisor
	ATION (to be signed by the Principal) aration of this practical examination has been carried out as to maintain fully the security of ination.
NAME	(in block capitals)
SIGNED	(Principal)