

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
International General Certificate of Secondary Education

**CHEMISTRY**

**0620/05**

Paper 5 Practical Test

October/November 2004

**CONFIDENTIAL INSTRUCTIONS**

**Great care should be taken 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 3 and 4. 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.

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

by e-mail: [International@ucles.org.uk](mailto:International@ucles.org.uk),

by phone: +44 1233 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 **4** printed pages.

**For Question 1**

Each candidate will need the following:

- (a) one 50 cm<sup>3</sup> measuring cylinder to measure 20 cm<sup>3</sup>;
- (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;
- (d) samples in stoppered test-tubes of;
  - 1.0 g **powdered** sodium thiosulphate;
  - 2.0 g **powdered** sodium thiosulphate;
  - 3.0 g **powdered** sodium thiosulphate;
  - 4.0 g **powdered** sodium thiosulphate;
  - 5.0 g **powdered** sodium thiosulphate;
- (e) distilled water;
- (f) stop clock/timer.

Addition of 5 g of powdered sodium thiosulphate to 20 cm<sup>3</sup> of water should produce a drop in temperature of greater than 5°C.

**For Question 2**

Each candidate will need the following:

- (a) About 0.5 g of ammonium chloride in a stoppered test-tube labelled 'solid E';
- (b) distilled water;
- (c) aqueous sodium hydroxide of concentration 1 mol/dm<sup>3</sup>;
- (d) silver nitrate solution of sufficient concentration to give a positive chloride test;
- (e) lead nitrate solution of sufficient concentration to give a positive chloride test;
- (f) aqueous nitric acid of concentration 1 mol/dm<sup>3</sup>;
- (g) pH indicator papers/chart;
- (h) rack of test-tubes, including a hard-glass test-tube;
- (i) distilled water;
- (j) Bunsen burner;
- (k) teat pipettes;
- (l) test-tube holder.

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

REPORT ON PRACTICAL CHEMISTRY

OCTOBER/NOVEMBER 2004

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 direct to UCLES on the normal *Application for Special Consideration* form.

NAME OF CENTRE .....

CENTRE NUMBER .....

SIGNED .....  
Supervisor

DECLARATION (to be signed by the Principal)

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

NAME .....  
(in block capitals)

SIGNED ..... (Principal)