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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CHEMISTRY 0620/05

Paper 5 Practical Test

May/June 2005

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 detatch and enclose it with the scripts. If scripts are to 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: 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.

For Question 1

Each candidate will need the following.

- (a) one 50 cm³ measuring cylinder;
- (b) one 50 cm³ burette;
- (c) one or more 250 cm³ conical flasks;
- (d) a stoppered bottle, labelled 'calcium hydroxide and water', containing 2g of powdered calcium hydroxide and about 100 cm³ of distilled water. Shake well for about a minute and set aside for a day or more;
- (e) 100 cm³ of 0.10 mol/dm³ hydrochloric acid labelled 'solution M'; C
- (f) 100 cm³ of 0.05 mol/dm³ hydrochloric acid labelled 'solution N';
 - (g) filtration apparatus, funnel, stand and filter paper;
 - (h) phenolphthalein indicator;
 - (i) distilled water;
 - (i) beaker.

25 cm³ of the solution of calcium hydroxide should require about 20 cm³ of solution **N** to change the colour of the indicator.

For Question 2

Each candidate will require:

- (a) About 20 cm³ of ethanoic acid, of concentration 1 mol/dm³ in a stoppered boiling tube labelled C 'liquid A';
 - **(b)** distilled water:
 - (c) a 3 cm length of magnesium ribbon;
 - (d) anhydrous sodium carbonate;
 - (e) limewater and the apparatus that candidates would normally use to test for carbon dioxide;
 - **(f)** copper(II) oxide labelled **B**;
- (g) ethanol;
- (h) aqueous sulphuric acid of concentration 1 mol/dm³;
 - (i) pH indicator papers/chart;
 - (j) rack of test-tubes:
 - (k) Bunsen burner;
 - (I) teat pipettes;
 - (m) test-tube holder;
 - (n) spatulas;
 - (o) aqueous ammonia of concentration 1 mol/dm³;
 - (p) potassium dichromate solution of concentration approx. 0.1 mol/dm³;
 - (q) one beaker.
- Concentrated sulphuric acid for the supervisor to dispense with a teat pipette. C

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

REPORT ON PRACTICAL CHEMISTRY

JUNE 2005

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 canon 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
	e signed by the Principal) is practical examination has been carried out as to maintain fully the security of
(in block capitals)	
SIGNED	(Principal)

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