



CHEMISTRY

0620/05

Paper 5 Practical Test

October/November 2009

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: International@cie.org.uk,

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 **8** printed pages.



For Question 1

Each candidate will need the following

- (a) Bunsen burner and splints;
 - (b) a test-tube;
 - (c) 50 cm³ each of four solutions of sulfuric acid of different concentrations, namely
 - [C] 2 mol/dm³ labelled **A**,
 - [C] 0.8 mol/dm³ labelled **B**,
 - [C] 0.5 mol/dm³ labelled **C**,
 - [C] 0.3 mol/dm³ labelled **D**;
 - (d) one or more 100 cm³ beakers;
 - (e) five 5 cm lengths of magnesium ribbon;
 - (f) one stirring thermometer, covering the range 0 °C to 100 °C;
 - (g) one 50 cm³ measuring cylinder;
 - (h) distilled water
- A 5 cm piece of magnesium when added to 20 cm³ of solution A should give a temperature rise of about 12 °C.

For Question 2

Each candidate will require

- [H] (a) 20 cm³ of an aqueous solution of ammonia, of concentration 1 mol/dm³, labelled **solution K**;
- [C] (b) 20 cm³ of an aqueous solution of sodium hydroxide, of concentration 1 mol/dm³, labelled **solution L**;
- [C] (c) 20 cm³ of an aqueous solution of hydrochloric acid, of concentration 1 mol/dm³, labelled **solution M**;
- (d) Universal indicator paper and pH chart;
- [H] (e) aqueous copper(II) sulfate solution of concentration 0.1 mol/dm³;
- (f) aqueous aluminium sulfate solution of concentration 0.1 mol/dm³;
- [C] (g) aqueous nitric acid of concentration 1 mol/dm³;
- [H] (h) aqueous silver nitrate solution of concentration 0.1 mol/dm³;
- (i) rack of test-tubes;
- (j) distilled water;
- (k) teat pipettes;
- (l) one measuring cylinder, 10 cm³.



THE SUPERVISOR'S REPORT IS ON PAGES 7 & 8

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

REPORT ON PRACTICAL CHEMISTRY

NOVEMBER 2009

www.PapaCambridge.com

1 (a) Supervisor's Results

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

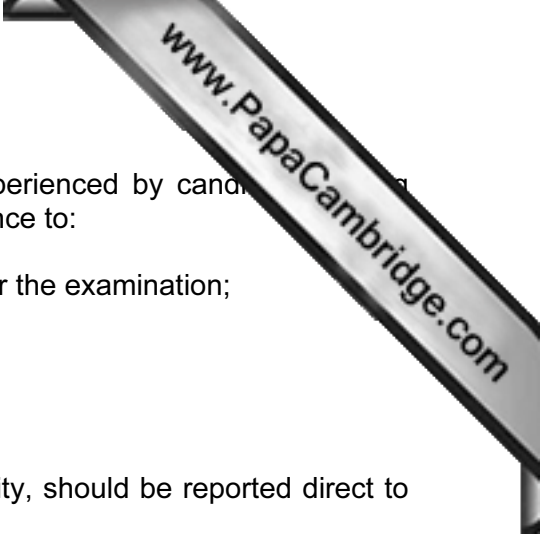
The supervisor is asked to carry out the experiments in Questions 1 and 2 and to record the results on a spare copy of the question paper clearly labelled 'Supervisor's Results'. Failure to enclose these results and this report form may lead to candidates being unavoidably penalised.

(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, including 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)

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