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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

PHYSICAL SCIENCE

0652/05

Paper 5 Practical Test

October/November 2006

CONFIDENTIAL INSTRUCTIONS

Great care should be taken to ensure that any confidential information given does not reach the candidates either directly or indirectly.

The Supervisor's attention is drawn to the form on page 4 which must be completed and returned with the scripts.

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 nature of the query and the syllabus number quoted above.

Instructions for preparing apparatus

WWW. Papa Cambridge.com These instructions detail the apparatus, reagents and specimens required by each candidate experiment in this paper. A summary of the questions that will be presented to the candidate included, where appropriate, to allow the teacher to test the apparatus appropriately. No access permitted to the question paper in advance of the examination session.

It is assumed that the ordinary apparatus of a science laboratory will be available, including a supply of purified water (distilled or deionised).

It is expected that candidates will have either a watch or sight of a clock with second hand.

If arrangements are made for different sessions for different groups of candidates, care must be taken to ensure that the different groups of candidates are effectively isolated so that no information passes between them.

For Question 1

Each candidate will require:

A piece of card about 130 mm square. Candidates will be required to cut out an L-shaped piece from the card using the measurements specified in Fig. 1.1

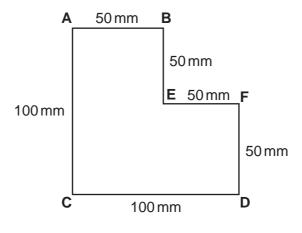


Fig. 1.1

- (ii) drawing pin;
- (iii) apparatus to enable the card and plumb-line to be suspended from the drawing pin. A cork held in a clamp would be suitable;
- (iv) scissors:
- about 300 mm thread with weight attached to act as a plumb-line; (v)
- (vi) set square or protractor;
- (vii) ruler graduated in mm;
- (viii) stand.

Candidates may ask without penalty for another piece of card. The supervisor could provide a prepared card, but this must be recorded and the candidate told that they will be penalised.

o wash out some

For Question 2

Each Candidate will require:

(i) 8 test-tubes 125 x 15 mm. If fewer are provided, candidates will need to wash out some those used;

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- (ii) filter funnel and paper;
- (iii) about 25 cm³ aqueous ammonia;
- (iv) about 1.5 g ammonium chloride;
- (v) about 1 g of anhydrous sodium carbonate;
- (vi) litmus paper;
- (vii) a Bunsen burner or other source of heat;
- (viii) access to the normal reagents used for testing for chloride and sulphate;
 - (ix) about 2g of each of the following solids:

citric acid, labelled **solid A**

calcium hydroxide, labelled solid B

hydrated zinc sulphate, labelled solid C

Candidates may be provided with further amounts of these solids if required.

Spare materials and equipment should be made available and can be provided without penalty.

Candidates should be made aware of this.

Information required from the Supervisor:

The Supervisor is asked to carry out the experiments and to enter the results on a spare copy of the examination paper, clearly marked 'Supervisor's Results' and showing the Centre number. This should be returned with the scripts. Failure to do so may cause the candidates to be penalised.

This form must be completed and returned in the envelope with the scripts together with the seating plan and the Supervisor's Results mentioned on page 3.

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General

The Supervisor is invited to give details of any difficulties experienced by particular candidates giving their names and candidate numbers. These should include reference to:

- (a) difficulties due to faulty apparatus;
- (b) accidents to apparatus or materials;
- (c) physical handicaps, e.g. short sight, colour blindness;
- (d) any other information that is likely to assist the Examiner, especially if this cannot be discovered in the scripts;
- (e) any help given to a candidate.

The Supervisor is asked to supply the following information:

Plan of work benches, giving details by candidate numbers of the places occupied by the candidates for each session and a copy of the 'Supervisor's Results'.

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

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