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 pages 2 and 3 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 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.

Supervisors are advised to remind candidates that all substances in the examination should be treated with caution. Safety glasses should be provided.

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.

\[ C = \text{corrosive} \]
\[ HH = \text{health hazard} \]
\[ F = \text{flammable} \]
\[ N = \text{hazardous to the aquatic environment} \]
\[ MH = \text{moderate hazard} \]
\[ T = \text{acutely toxic} \]
\[ O = \text{oxidising} \]

Hazard data sheets should be available from your suppliers.

If you have any queries regarding these Instructions, please contact CIE by email: info@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.
For Question 1

Each candidate will require

(a) one 50 cm$^3$ measuring cylinder

(b) one polystyrene cup and a 250 cm$^3$ beaker

[N] (c) 100 cm$^3$ of aqueous copper(II) sulfate of concentration 0.5 mol/dm$^3$, labelled aqueous copper(II) sulfate

[F] (d) 4 g of magnesium powder, in a dry stoppered tube, labelled magnesium

(e) 6 g of iron filings, labelled iron

(f) access to water and distilled water

(g) one stirring thermometer, –10°C to +110°C at 1°C graduations

(h) one stopclock or timer. Candidates may use their own watches.
For Question 2

Each candidate will require

[MH]  (a) about 12 cm$^3$ of dilute sulfuric acid of concentration 1.0 mol/dm$^3$, labelled solution Q

[MH]  (b) about 12 cm$^3$ of a saturated solution of calcium hydroxide (limewater), Ca(OH)$_2$, labelled solution R

(c) pH indicator papers and chart

(d) one rack of eight test-tubes and a stopper to fit

(e) distilled water

(f) splints

[F]  (g) one 2 cm strip of magnesium ribbon

[C]  (h) aqueous sodium hydroxide of concentration 1.0 mol/dm$^3$

[MH]  (i) limewater and apparatus commonly used to test for carbon dioxide

(j) aqueous barium nitrate of concentration suitable to give a positive test for sulfate ions

[MH][N]  (k) aqueous silver nitrate of concentration suitable to give a positive halide test

[MH]  (l) dilute nitric acid of concentration 0.5 mol/dm$^3$

[MH]  (m) access to anhydrous sodium carbonate

[MH]  (n) access to iron(II) sulfate crystals

(o) spatulas

(p) one Bunsen burner and matches

(q) teat pipettes

Note: Labels do not need to include concentrations.
THE SUPERVISOR’S REPORT IS ON PAGES 7 AND 8
THE SUPERVISOR’S REPORT IS ON PAGES 7 AND 8
THE SUPERVISOR’S REPORT IS ON PAGES 7 AND 8
REPORT ON PRACTICAL CHEMISTRY

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:

<table>
<thead>
<tr>
<th>First session</th>
<th>Second session</th>
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<tbody>
<tr>
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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 preparing materials for the Practical Test;
(b) difficulties due to faulty apparatus or materials;
(c) accidents involving apparatus or materials.

Other cases of individual hardship, e.g. illness, temporary disability, should be reported direct to CIE 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 so as to maintain fully the security of the examination.

NAME .......................................................................................................................................................
(in block capitals)

SIGNED  ..............................................................................................................................  (Principal)