

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2006 question paper

0620 CHEMISTRY

0620/05

Paper 5, maximum raw mark 40

These mark schemes are published as an aid to teachers and students, to indicate the requirements of the examination. They show the basis on which Examiners were initially instructed to award marks. They do not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the *Report on the Examination*.

The minimum marks in these components needed for various grades were previously published with these mark schemes, but are now instead included in the Report on the Examination for this session.

- CIE will not enter into discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2006 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



| Page 1 | Mark Scheme | Syllabus | Paper |
|--------|-----------------------|----------|-------|
| | IGCSE – May/June 2006 | 0620 | 05 |

| | | |
|----------|---|-------------------------|
| 1 | Table of results | |
| | Volumes completed for 10 seconds (1) and 20 seconds (1) | |
| | Volumes decreasing (1) | |
| | Comparable to supervisor (2) | [5] |
| | (a) Graph points correctly plotted (2), -1 for each incorrect | |
| | Best fit lines (1) labels (1) | [4] |
| | (b) fizzing/bubbles/black (1) | [1] |
| | (c) (i) Experiment 1 (1) | [1] |
| | (ii) strongest/more concentrated solution (1) more collisions (1) | [2] |
| | (d) (i) e.g. amount of catalyst added different/starting the timer/inaccurate measurement of peroxide max 2 | [2] |
| | (ii) e.g. measure mass of catalyst/time using data logger/use a burette or pipette to measure peroxide max 2 | [2] |
| | (e) filter (1) mass of catalyst same before and after (1) | |
| | /repeat experiment and compare volumes of gas given off (1) max 2 | [2] |
| | Experiment 5 | |
| | Glowing splint (1) relights (1) oxygen (1) | [3] |
| | | [Sub total = 22] |
| 2 | (a) white (1) | [1] |
| | (b) paper goes pink/colourless/condensation description/ solid yellow max 2 | [2] |
| | (c) (i) white (1) precipitate (1) soluble in excess or similar (1) | [3] |
| | (ii) white precipitate (1) soluble in excess or similar(1) | [2] |
| | (iii) white precipitate (1) | [1] |
| | (iv) no reaction/unchanged (1) | [1] |
| | (d) fizz/bubbles (1) limewater milky (1) | [2] |
| | (e) water (of crystallisation) present (1) | [1] |
| | (f) sulphate present (1) chloride/halide absent (1) | [2] |
| | (g) B is zinc (1) sulphate (1) | |
| | C is (zinc) carbonate (1) | [3] |
| | | [Sub total = 18] |