

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

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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.

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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]