UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2007 question paper

0620 CHEMISTRY

0620/05 Paper 5 (Practical), maximum raw mark 40

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UNIVERSITY of CAMBRIDGE
International Examinations

1 Table of results

Experiment 1
initial and final volume boxes correctly completed (1)
to 1 dec. place (1)
comparable to supervisor ± 5cm^3 (1) [3]

Experiment 2
initial and final volume boxes correctly completed (1)
to 1 dec. place (1)
comparable to supervisor ± 5cm^3 (1) [3]

(a) brown / orange / red / amber / precipitate (1) [1]

(b) becomes redder / yellow / orange / paler (1) [1]

(c) **(i)** yellow (1) to blue / black (1) [2]
NOT: green

(ii) as an indicator owtte [1]
NOT: test for iodine

(d) **(i)** Experiment 1 (1) [1]

(ii) more in Experiment 1 / greater volume (1) [1]

(iii) solution **A** more concentrated / stronger than **B** (1) X2 (1) [2]

(e) half X value from table (1) cm^3 / cc / ml (1) [2]

(f) change e.g. repeat titrations (1)
explanation e.g. average reading more accurate (1) [2]

[Total: 19]

2 **(a)** reference to green (1) – refer to supervisor [1]

(b) paper turns blue / green / reference to smell (1) pH 8-11 (1) [2]
solid is yellow / brown / grey / charred or reference to sublimate (1) [1]

(c) fizz / bubbles / effervescence (1) [1]

(d) yellow (1) precipitate (1) fizz / bubbles (1) [3]

(e) **(i)** white (1) precipitate (1) [2]

(ii) green (1) precipitate (1) [2]

(iii) green precipitate (1) [1]
paper turns blue / green / reference to smell (1) pH 8-11 (1) [2]

(f) lead (1) carbonate (1) [2]

(g) iron (1) (II) (1) ammonium (1) sulphate (1) [4]

[Total: 21]