

MARK SCHEME for the May/June 2007 question paper

0620 CHEMISTRY

0620/05

Paper 5 (Practical), maximum raw mark 40

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1 Table of results

Experiment 1

initial and final volume boxes correctly completed (1)
 to 1 dec. place (1)
 comparable to supervisor $\pm 5\text{cm}^3$ (1) [3]

Experiment 2

initial and final volume boxes correctly completed (1)
 to 1 dec. place (1)
 comparable to supervisor $\pm 5\text{cm}^3$ (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]

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- 2 (a) reference to green (1) – refer to supervisor
- (b) paper turns blue / green / reference to smell (1) pH 8-11 (1)
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]