

## **MARK SCHEME for the May/June 2007 question paper**

### **0620 CHEMISTRY**

**0620/05**

Paper 5 (Practical), 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.

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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)  $\text{cm}^3$  / 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 [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]**