

**MARK SCHEME for the October/November 2008 question paper**

**0620 CHEMISTRY**

**0620/05**

Paper 5 (Practical Test), maximum raw mark 40

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**1** Experiment 5 observations

rapid/vigorous o.w.t.t.e (1)      bubbles/fizz (1)  
blue precipitate (1) [max 2]

Table of results

initial boxes correctly completed (1)  
final boxes correctly completed (1)  
differences correctly completed (1)      signs correct (1)  
comparable to Supervisor's results (1) [5]

**(a)** all 4 bars correctly drawn (3), –1 for each incorrect  
labelled (1) [4]

**(b)** **(i)** solid **A**/Experiment 1 (1) [1]

**(ii)** temperature increased/heat/energy given out (1) [1]

**(c)** Experiment 3/solid **C** or from results (1) [1]

**(d)** **(i)** double the value or  $2 \times$  value from table (1) [1]  
e.c.f. applies

**(ii)** half the value or half the value from table (1) [1]

**(iii)** more/larger volume of water (1) twice as much (for solid to dissolve in) o.w.t.t.e. (1) [2]

**(e)** acid present (1) carbonate present (1) carbon dioxide (1) [max 2]

**[Total: 20]**

**2** **(a)** solution **K**      blue/green  
solution **L**      yellow/orange/brown (1) [1]

**(b)** check pHs from Supervisor's results  
pH of solution **K**      1–6  
pH of solution **L**      1–6 (1) [1]

tests on solution **K**

**(c)** **(i)** blue (1) precipitate (1) [2]

**(ii)** deep/royal blue (1) solution/precipitate dissolves (1) [2]

**(iii)** no reaction/change/nothing (1) not lighter [1]

**(iv)** white (1) precipitate (1) [2]

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tests on solution L

- (d)** **(i)** (rusty) brown (1) precipitate (1) [2]
- (ii)** brown precipitate (1) not red [1]
- (iii)** no reaction/change/nothing (1) [1]
- (iv)** white (1) precipitate (1) not lighter/paler [2]
- (e)** acidic (1) [1]
- (f)** chloride/  $Cl^-$  (1) [1]
- (g)** **(i)** copper (1) [1]
- (ii)** iron (1) (III) (1) [2]

**[Total: 20]**

**[Total for paper: 40]**