

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]