UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

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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UNIVERSITY of CAMBRIDGE
International Examinations

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 × 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) <u>deep/royal</u> 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]

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