UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2008 question paper

0620 CHEMISTRY

0620/05 Paper 5 (Practical Test), maximum raw mark 40

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International Examinations

1 Experiment **1(a)** green precipitate (1) [1]

Experiment **2(d)** brown/orange/rust precipitate (1) [1]

Table of results

Experiment 1
initial and final volume boxes correctly completed (1)

Experiment 2
initial and final volume boxes correctly completed (2)

differences completed correctly (1)

comparable to Supervisor's results ± 5 cm^3 (2) [6]

(e) (pale) green (1) [1]

(f) (turns) yellow (1) [1]

(g) (i) Experiment 1 (1) ecf [1]

(ii) more in Experiment 1/greater volume (1) [1]

(iii) solution **A** more concentrated/stronger than **B** (1) ×2 (1) [2]

(h) twice the volume value for Experiment 2 (1) cm^3/ml (1) [2]

(i) change e.g. repeat titrations (1) or use a burette/pipette

explanation e.g. average reading more accurate (1) instead of m/cylinder [2]

(j) (i) iron(II) present (1) [1]

(ii) iron(III) (1) [1]

[Total: 20]

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2 Tests on solid **T**

(a) white (1) see Supervisor's results [1]

(b) condensation (1) solid goes black/chars (1)

gas ignites/catches fire or flame (1) [max 2]

(c) **(i)** orange/yellow (1) pH6/5 (1) see Supervisor's results [2]

(ii) white (1) precipitate (1) [2]

(iii) reddish (1) brown on heating (1) [2]

Tests on solid **V**

(d) green (1) [1]

(e) solid changes colour to copper/brown (1) [1]

(f) smells acidic/vinegar or similar (1) [1]

(i) green (1) pH 7/6 (1) see Supervisor's results [2]

(ii) blue (1) precipitate (1) [2]

(iii) green (1) [1]

(g) calcium present (1) [1]

(h) copper present (1) ethanoic acid/organic salt (1) [2]

[Total: 20]

[Total for paper: 40]

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