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

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

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.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

- CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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

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

2 Tests on solid **T**

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

(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]