

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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- 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 $\pm 5 \text{ cm}^3$ (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) $\times 2$ (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]