

June 2003

INTERNATIONAL GCSE

MARKING SCHEME

MAXIMUM MARK: 60

SYLLABUS/COMPONENT: 0620/06

CHEMISTRY

(Alternative to Practical)



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	IGCSE EXAMINATIONS – June 2003	0620	6

- 1 (a) A = mortar (1)
 B = stirrer/stirring rod (1) not thermometer
 C = tripod (1)
 D = Bunsen Burner (1) [4]
- (b) filtration [1]
- (c) D or description [1]
- 2 (a) because precipitate formed/goes cloudy (1)
 sulphur (1)/turbid [2]
- (b) reference to fair test/comparison/same depth [1]
- (c) sodium thiosulphate/water 1st/2nd acid, last [1]
- (d) (i) all points correct (3), -1 for any incorrect
 smooth line (1)
 label (1) [5]
- (ii) line lower down (1)
 does not touch other line (1) [2]
- (e) times would be longer (1) because solution more spread out/reference to
 surface area/depth (1) [2]
- 3 Table of results
 correct burette readings in table (3) or 17.2, 18.9, 26.5
 i.e. 16.8, 17.1 and 25.5
 Differences correctly completed (1) Difference 7.6
 i.e. 8.4 [4]
- (a) (i) Experiment 1 [1]
 (ii) twice volume/more than twice as much [1]
 (iii) Solution B was 2x (1) concentration of C (1) or similar
 B more concentrated than C (1 only) [2]
 (iv) volume A = 33.6 (1) cm³ (1)/34.4cm³
 2x iodine produced (1) [3]
- (b) reference to accuracy (1) indicator (1)/easier to see
not test for I₂ max 2 [2]
- 4 (c) effervescence/fizz/bubbles (1)
 limewater milky (1)/blue solution [2]
- (d) (ii) blue (1) precipitate (1)
 royal/dark blue (1) solution (1) [4]
- (e) (i) white (1) precipitate (1)
 dissolves (1) [3]
 (ii) white (1) precipitate (1)
 dissolves (1) [3]
- (f) Solid D is a sulphate (1) hydrated (1) [2]
- (g) copper (1)/Cu²⁺ (2) [2]

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- 5 (a) (i) Smooth line graph [1]
(ii) result at 5 minutes (1)
not on curve (1)/gas escapes, gone down [2]
- (b) 0.8 g [1]
- (c) reference to leak/loss of gas (1)
∴ volumes lower (1) [2]
- 6 Known mass of beach sand (1)
add excess (1) dilute hydrochloric acid (1)
filter (1) wash (1) dry (1) residue
and weigh sand (1) working out result (1)
max 6 of 8 [6]

[Total: 60]