

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the June 2005 question paper

0620 CHEMISTRY

0620/05

Paper 5 (Practical Test), maximum mark 40

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

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 discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the June 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Grade thresholds for Syllabus 0620 (Chemistry) in the June 2005 examination.

	maximum mark available	minimum mark required for grade:			
		A	C	E	F
Component 5	40	32	26	19	16

The threshold (minimum mark) for B is set halfway between those for Grades A and C.
The threshold (minimum mark) for D is set halfway between those for Grades C and E.
The threshold (minimum mark) for G is set as many marks below the F threshold as the E threshold is above it.

Grade A* does not exist at the level of an individual component.



June 2005

IGCSE

MARK SCHEME

MAXIMUM MARK: 40

SYLLABUS/COMPONENT: 0620/05

CHEMISTRY
Practical Test



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Page 1	Mark Scheme	Syllabus	Paper
	IGCSE – JUNE 2005	0620	5

1 Table of results

Experiment 1

Initial and final volume boxes correctly completed (1)

To 1 d.p. (1) Comparable to Supervisor ± 4 (1) [3]

Experiment 2

Initial and final volume boxes correctly completed (1)

To 1 d.p. (1) Comparable to Supervisor ± 4 (1) [3]

(a) white/cloudy/milky (1) [1]

(b) purple/pink (1) to colourless (1) [2]

(c) neutralisation (1) [1]

(d) (i) Experiment 2 (1) [1]

(ii) Experiment 2 more/greater volume (1) x 2 (1) [2]

(iii) **M** more concentrated/stronger than **N** (1) x 2 (1) [2]

(e) 2 x value from table (1) cm³ (1)

twice as much calcium hydroxide (1) [3]

(f) e.g. use a pipette/burette *instead of a measuring cylinder* (1) [1]

(g) slightly (1) [1]

Sub total 20

2 (a) colourless (1) reference to smell (1) [2]

(b) red/orange/yellow (1) 4 to 6 ± 1 (1) see Supervisor [2]

(c) (i) fizz/bubbles (1) lighted splint (1) pops (1) [3]

(ii) fizz/bubbles (1) limewater milky/cloudy (1) [2]

(iii) green/blue (1) deep/dark blue (1) [2]

(iv) colourless/no change/oily layer (1) sweet/fruity/glue/smell (1) [2]

(v) orange/no change (1) [1]

(d) (i) hydrogen (1) [1]

(ii) carbon dioxide (1) [1]

(e) copper (1) 2+ (1) [2]

(f) weak (1) acid (1) check (b) for consequential answer [2]

Sub total 20

Total 40