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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2010 question paper for the guidance of teachers

0620 CHEMISTRY

0620/51

Paper 51 (Practical), 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, which would have considered the acceptability of alternative answers.

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

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		7.4	
Page 2	Mark Scheme: Teachers' version	Syllabus \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	N.
	IGCSE – May/June 2010	0620	8-
	dicator to change colour completed Expt 1 5–10 cm ³	±5	Candhid
initial temper other temper	ature box completed correctly (1) ature boxes correctly completed (1) i.e. increasing the o supervisors (1)	n decreasing	[3]

volume for indicator to change colour completed Expt 2 15–20 cm³ ±5 [1]

[3]

[3]

Table of results for Experiment 2

initial temperature box completed correctly (1) other temperature boxes correctly completed (1) i.e. increasing then decreasing comparable to supervisors (1)

(a) all points correctly plotted (3), -1 for any incorrect smooth line graphs or two intersecting straight lines (2) labels (1) [6]

(b) value from graph (1) shown clearly (1) [2]

(c) pink to colourless not clear [1]

(d) (i) experiment 1 [1]

(ii) acid C more concentrated (1) stronger (1) more collisions (1) max [2] [2]

(e) room temperature or initial temperature from table (1) reaction finished owtte (1) [2]

Tests on solid E 2

> (a) white/colourless (solid) [1]

> (b) melts/turns into a liquid/drops of liquid at top of test-tube/steam (1) pH paper turns red/pH 1-4 (1) brown/yellow gas (1) max [2] [2]

> (c) (i) white (1) precipitate (1) with excess dissolves/clears (1) [3]

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Pa	ge 3	Mark Scheme: Teachers' version	Syllabus	
		IGCSE – May/June 2010	0620	
	` '	e precipitate (1) luble/does not dissolve/no change (1)	Syllabus O620 Add Cannonia	
	(iii) pH <u>1</u> no re	<u>-4</u> (1) eaction owtte (1)	[2]	0
		vescence/fizz/bubbles (1) paper blue/purple/dark green (1)	[2]	
(d)	acid (1) not a sulf	fate (1)	[2]	
(e)	ammonia	a (1)	[1]	
(f)	aluminiur nitrate (1 hydrated		[3]	
	·		[Total: 40]	