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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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	Page 2	Mark Scheme: Teachers' version	Syllabus	Paper	
		IGCSE – May/June 2010	0620	51	
1	volume for indicator to change colour completed Expt 1 5–10 cm ³ ±5			[1]	
	Table of resu				
	initial temper				
		ture boxes correctly completed (1) i.e. increasing then decreasing supervisors (1)		[3]	
	volume for in	dicator to change colour completed Expt 2 15–20 c	m ³ ±5	[1]	
	Table of resu	able of results for Experiment 2			
	initial temper				
	other temperature boxes correctly completed (1) i.e. increasing then decreasing comparable to supervisors (1)			[3]	
		(a) all points correctly plotted (3), -1 for any incorrect smooth line graphs or two intersecting straight lines (2)			
	labels (1			[6]	
	(b) value fro	om granh (1)			
	• •	learly (1)		[2]	
	(a) pink to a	olourloop not aloor		[4]	
	(c) pink to c	olourless not clear		[1]	
	(d) (i) expe	eriment 1		[1]	
		C more concentrated (1)			
		nger (1) e collisions (1) max [2]		[2]	
		nperature or initial temperature from table (1) finished owtte (1)		[2]	
		()			
2	Tests on solid E				
	(a) white/co	lourless (solid)		[1]	
	(b) molto/tur	ma into a liquid/drama of liquid at tan of toot tube/ata	am (1)		
	pH pape	rns into a liquid/drops of liquid at top of test-tube/ste r turns red/pH 1–4 (1)	aiii (1)	101	
	brown/ye	ellow gas (1) max [2]		[2]	
	(c) (i) whit	· ·			
		cipitate (1) excess dissolves/clears (1)		[3]	
				_	

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper	
-	IGCSE – May/June 2010	0620	51	
(ii) white precipitate (1) insoluble/does not dissolve/no change (1)				
(iii) pH <u>:</u> no r	<u>1–4</u> (1) eaction owtte (1)		[2]	
· ,	rvescence/fizz/bubbles (1) paper blue/purple/dark green (1)		[2]	
(d) acid (1) not a sul	(d) acid (1) not a sulfate (1)		[2]	
(e) ammoni) ammonia (1)			
nitrate (1	aluminium (1) nitrate (1) hydrated salt/contains water (1)		[3]	

[Total: 40]