UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2011 question paper

for the guidance of teachers

0620 CHEMISTRY

0620/51

Paper 5 (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.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – October/November 2011	0620	51
1	(a)	table initia othe com	1.0 min (1)	[3]	
	(b)	initia othe	e of results for experiment 2 al and final temperature boxes completed correctly for 0.0, or temperature boxes correctly completed ascending (1) parable to supervisors (1)	0.5 and 1.0 min	ı (1) [3]
	(c)	best	oints correctly plotted (3), –1 for any incorrect fit smooth line graphs (1) Is (1)		[5]
	(d)	valu	ue from graph (1) unit (1) shown clearly (1)		[3]
	(e)	exot	hermic / redox / displacement (1)		[1]
	(f)	(i)	temperature rises greater / faster in experiment 1 or conv	erse (1)	
		(ii)	zinc is more reactive (1)		[2]
	(g)		perature changes would be larger / faster / owtte (1) solution (1)		[2]
	(h)		l would react slower / temperature rises would be slower (ller / less surface area (1)	1)	[2]
					[Total: 21]
2	(a)		P colourless no smell Q colourless no smell R colourless smells acidic/vinegar all colours correct (1) correct smells (1)		[2]
		. ,	P red pH 1–3 Q green pH 6–7 R orange pH 4–5 all colours correct (1) pH values correct order (1)		[2]
	(b)	Q	fizzes / effervescence (1) lighted splint (1) pops (1) no reaction (1) fizzes (1)		[3] [2]

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0620	51
Q no r	rvescence / fizz / bubbles (1) reaction (1) es (1)		[3]
(d) blue col white pr	our (1) ecipitate (1)		[1] [1]
(e) 98–102	(1)		[1]
(f) sulfuric	(1) acid (1)		[2]
(g) water (1)		[1]
(h) organic	/ weak / ethanoic / acid (1)		[1]
			[Total: 19]