hun. Airene Pabers. Con

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.

	га	ge z		Syllabus	i apei
			IGCSE – October/November 2011	0620	51
1	(a)	initi othe	le of results for experiment 1 ial temperature boxes completed correctly for 0.0, 0.5 and er temperature boxes correctly completed ascending (1) mparable to supervisors (1)	d 1.0 min (1)	[3]
	(b)	initi othe	ole of results for experiment 2 ial and final temperature boxes completed correctly for 0. Her temperature boxes correctly completed ascending (1) imparable to supervisors (1)	0, 0.5 and 1.0 mir	n (1) [3]
	(c)	bes	points correctly plotted (3), -1 for any incorrect st fit smooth line graphs (1) els (1)		[5]
	(d)	val	lue from graph (1) unit (1) shown clearly (1)		[3]
	(e)	exo	othermic / redox / displacement (1)		[1]
	(f)	(i)	temperature rises greater / faster in experiment 1 or cor	nverse (1)	
		(ii)	zinc is more reactive (1)		[2]
	(g)		nperature changes would be larger / faster / owtte (1) s solution (1)		[2]
	(h)		id would react slower / temperature rises would be slowe aller / less surface area (1)	r (1)	[2]
					[Total: 21]
2	(a)	(i)	P colourless no smell Q colourless no smell R colourless smells acidic/vinegar all colours correct (1) correct smells (1)		[2]
		(ii)	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)	Р	fizzes / effervescence (1)		
	(7)	Q	lighted splint (1) pops (1) no reaction (1)		[3]
		R	fizzes (1)		[2]

Mark Scheme: Teachers' version

Syllabus

Paper

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Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0620	51
Q no r	rvescence / fizz / bubbles (1) eaction (1) es (1)		[3]
(d) blue cold white pre	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]