CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the October/November 2014 series

0620 CHEMISTRY

0620/53

Paper 5 (Practical), maximum raw mark 40

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Page 2		Syllabus	Paper
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(d)	table of results initial temperature boxes completed correctly (1) final temperature boxes correctly completed (1) differences correct (1) include minus signs comparable to supervisors (1)		[4]
(e)	bubbles / fizzing / effervescence (1) blue precipitate (1)		[2]
(f)	all bars at correct levels (2), suitable scale (1) labels (1)		[4]
(g)	(i) experiment 2 (1)		[1]
	(ii) experiments 2 and 3 (1) temperature decreased (1)		[2]
(h)	(i) half temperature change / half value in table (1)		[1]
	(ii) half temperature change / half value in table (1)		[1]
(iii) half amount of solid used (1)		[1]
(i)	room temperature / value from table (1) finished dissolving / reacting (1)		[2]
(j)	carbonate (1) carbon dioxide (1) acid (1) Cu^{2+} (1)		max [2]

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2 tests on solution M

(a)	colourless see test (e) ignore clear pH 1–3 (1)	[1]
(b)	bubbles (1) lighted splint goes out (1)	[2]
(c)	fizz / bubbles etc. (1) lighted splint (1) pops (1)	[3]
(d)	white (1) precipitate (1)	[2]
(e)	appearance colourless (1) must have (a) correct as well pH 11–14 (1)	[1] [1]
(f)	colourless / no change (1) with excess white (1) precipitate (1)	[3]
(g)	litmus paper turns blue (1) pungent smell (1) do not allow: strong	[2]
(h)	(i) hydrogen (1)	[1]
	(ii) ammonia (1)	[1]
(i)	hydrochloric acid (2) note: acid / chloride only (1)	[2]
(j)	(sodium / potassium) hydroxide (1)	[1]