MARK SCHEME for the May/June 2011 question paper

for the guidance of teachers

0620 CHEMISTRY

0620/52

Paper 5 (Practical), maximum raw mark 40

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 May/June 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 – May/June 2011	0620	52
1	(a)	initial vol volume t allow ma	results for Experiment 1 ume box, at time = 0 completed correctly (1) boxes correctly completed in ascending order (1) aximum of 2 consecutive identical numbers axible to Supervisor's results (1) ±15 at 180s		[3]
	(b)	initial vol volume t allow ma	results for Experiment 2 ume box, at time = 0 completed correctly (1) boxes correctly completed in ascending order (1) aximum of 2 consecutive identical numbers able to Supervisor's results (1) ±10 at 180s		[3]
	(c)	two smo	s correctly plotted (3), –1 for any incorrect including t = 0 oth line graphs (2) arly labelled (1)		[6]
	(d)	(i) expe	eriment 1 (1) not ecf		[1]
		(ii) acid	X stronger/more concentrated or converse (1) allow ecf f	rom (d)(i)	[1]
	(e)		finished (1) note 'reactants used up' scores this mark cid used up (1) not all Mg used up		[2]
	(f)		m graph (1) ± half small square (1.5s) ndication shown (1)		[2]
	(g)		nt air being displaced into the measuring cylinder/owtte (1) inaccurate reading/volume measurement (1)		[2]
	(h)		ge e.g. convenient/easy/quick to use/fairly accurate (1) ntage e.g. reference to inaccurate measurement (1)		[2]

	Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2011	0620	52
2	(a) white (1)			[1]
	description reference	e from: r turns blue/pH >7 (1) on of sublimate e.g. solid formed on sides of tube (1) e to smell of the gas (1) on of condensate (1)		max [3]
	(c) (i) white	e (1) precipitate (1)		[2]
	(ii) pape	er turns blue/pH>7 (1)		[1]
	(iii) no p	recipitate/no reaction/no change/colourless/stays clear (1)		[1]
	(d) efferveso	cence/bubbles/fizz (1) limewater (1) milky/cloudy (1)		[3]
	(e) (i) white	e (1) precipitate (1)		[2]
	(ii) no/th	nin/slight precipitate/no reaction (1)		[1]
	(f) ammoniu	um (1) chloride (1)		[2]
	(g) calcium ((1) carbonate (1)		[2]
			I	Total: 40]