

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

CHEMISTRY 0620/53

Paper 5 Practical Test May/June 2017

MARK SCHEME
Maximum Mark: 40

Published

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CAMBRIDGE International Examinations

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Question	Answer	Marks
1(a)	volume at time = 0 s completed correctly	1
	all volumes completed and in ascending order	1
1(b)	volume at time = 0 s completed correctly AND all volumes completed and in ascending order	1
	gas volumes increase less quickly at the start of Experiment 2 than at the start of Experiment 1	1
1(c)	all points correctly plotted	2
	two smooth lines	1
	labelled	1
1(d)	Experiment 1	1
	more concentrated/stronger acid/the acid has a lower pH	1
1(e)	volume of gas at 30 s	1
	correct calculation of rate	1
	unit: cm ³ /s OR cm ³ s ⁻¹	1
1(f)	all the magnesium will have reacted	1
1(g)	faster reaction/increased rate	1
	magnesium powder has a higher surface area	1

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Question	Answer	Marks
1(h)	advantage: easy to use/quick	1
	disadvantage: not accurate	1
1(i)	use of burette/pipette/gas syringe/weighed amount of magnesium/repeat experiment (and average)/clean the magnesium/remove oxide layer	1

Question	Answer	Marks
2(a)	black (powder)	1
2(b)(i)	bleached/white/decolourised	1
2(b)(ii)	brown	1
	precipitate	1
2(c)	chlorine	1
2(d)	any 3 from: turns yellow bubbles/fizz red/brown/orange precipitate	3
2(e)	yellow/brown	1
	blue/black	1
2(f)	turns colourless	1

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Question	Answer	Marks
2(g)	fizz/bubbles	1
	glowing splint	1
	relights	1
2(h)	oxygen	1

Question	Answer	Marks
3	any 6 from: crush lumps pestle and mortar weigh cassiterite heat/reduce with carbon/CO/more reactive metal, e.g. Zn weigh tin (mass of tin/initial mass) · 100 (%)	6

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