

#### **Cambridge International Examinations**

Cambridge International General Certificate of Secondary Education

CHEMISTRY 0620/51

Paper 5 Practical Test May/June 2017

MARK SCHEME
Maximum Mark: 40

#### **Published**

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## Cambridge IGCSE – Mark Scheme **PUBLISHED**

Question	Answer	Marks
1(b)	initial and final readings completed correctly	1
	differences completed correctly	1
	all readings to 1 d.p.	1
	results comparable to the Supervisor's results	1
1(c)	red/brown/amber/orange	1
1(d)	(becomes) yellow/orange/paler	1
1(e)	yellow to blue/black	1
1(f)(i)	solution C is more concentrated	1
	a greater volume of thiosulfate was needed	1
1(f)(ii)	ratio of the candidate's differences from the table in (b)	1
1(g)	1.5 × value from table in <b>(b)</b> for Experiment 2	1
	unit: cm <sup>3</sup>	1
1(h)(i)	2 sources of error, e.g.:  using a measuring cylinder to measure solution <b>C</b> /solution <b>D</b> only carrying out the experiments once going past the end-point	2
1(h)(ii)	2 meaningful improvements related to (h)(i):  use a pipette/burette  repeat the experiment  improvement linked to going past the end-point	2

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Question	Answer	Marks
2(a)	green	1
2(b)	any 2 from:  turns black condensation/drops of liquid formed moves/jumps around	2
2(c)(i)	any 3 from:  • blue (solution)  • bubbles/fizz  • limewater  • milky	3
2(c)(ii)	blue	1
	precipitate	1
	(with excess) deep/royal blue solution/clear/precipitate dissolves	1
2(d)	blue-green	1

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Question	Answer	Marks
2(e)	copper/Cu <sup>2+</sup>	1
	carbonate/CO <sub>3</sub> <sup>2-</sup>	1
2(f)	white	1
2(g)(i)	no reaction/no change	1
2(g)(ii)	yellow precipitate	1
2(h)	lilac	1
2(i)	potassium/K <sup>+</sup>	1
	iodide / ${f I}^-$	1

Question	Answer	Marks
3(a)	(red) litmus turns blue	1
3(b)(i)	heat/boil the mixture	1
	condense the vapour	1
3(b)(ii)	filter/decant	1
	wash residue (with water)	1
	dry	1

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