



Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

CHEMISTRY**0620/53**

Paper 5 Practical Test

October/November 2016

MARK SCHEME

Maximum Mark: 40

Published

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This document consists of **4** printed pages.



Page 2	Mark Scheme	Syllabus	Paper
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Question	Answer	Mark
1(a)	table of results for Experiment 1 temperature boxes completed correctly results comparable to supervisor's	1 1
1(b)	table of results for Experiment 2 temperature boxes completed correctly results comparable to supervisor's	1 1
1(c)	all points correctly plotted $\pm$ half a small square smooth line graphs labelled	2 1 1
1(d)(i)	value from graph – 60 s	1 1
1(d)(ii)	value from graph shown clearly	1 1
1(e)	room temperature or initial temperature from results table reaction has finished / stopped	1 1
1(f)	more readings / points / data smoother curve / better or more accurate graph	1 1
1(g)	polystyrene is an insulator / copper is a (good) conductor reduced heat losses	1 1

Page 3	Mark Scheme	Syllabus	Paper
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Question	Answer	Mark
2(a)(i)	pH 0–3	1
2(a)(ii)	effervescence / bubbles / fizzes lighted splint 'pops'	1 1
2(a)(iii)	effervescence / bubbles / fizzes limewater turns milky	1 1
2(a)(iv)	white precipitate	1
2(b)(i)	pH 10–14	1
2(b)(ii)	white precipitate insoluble / no change	1 1
2(b)(iii)	brown precipitate	1 1
2(b)(iv)	green precipitate	1
2(c)	sulfuric acid	1 1
2(d)	calcium hydroxide	1 1

Page 4	Mark Scheme	Syllabus	Paper
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Question	Answer	Mark
3	silica filter (the cleaner) wash the residue dry the residue water heat (the filtrate / cleaner) condense the vapour sodium carbonate heat to dryness / no liquid left (then solid) sodium carbonate is left OR heat until saturated then cool to crystallise / leave to crystallise	6