



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

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2016 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.

© IGCSE is the registered trademark of Cambridge International Examinations.

This syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

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

Page 2	Mark Scheme	Syllabus	Paper
	Cambridge IGCSE – October/November 2016	0620	53

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
	Cambridge IGCSE – October/November 2016	0620	53

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
	Cambridge IGCSE – October/November 2016	0620	53

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