CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the October/November 2015 series

0652 PHYSICAL SCIENCE

0652/52

Paper 5 (Practical Test), maximum raw mark 30

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.

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Page 2	2	Mark Scheme	Syllabus	Paper
		Cambridge IGCSE – October/November 2015	0652	52
(a)	(i)	realistic I value recorded for 15.0 cm; realistic V value recorded for 15.0 cm;		[2]
	(ii)	units both correct (symbols or names);		[1]
	(iii)	all <i>I</i> values < 1.5 A and to at least 2 d.p.; all <i>V</i> values < 2.5 V and to at least 1 d.p.; <i>I</i> values decreasing and <i>V</i> values increasing; (allow: one pair of identical values)		[3]
(b)	suit at le	s labelled with units ; able choice of scales (≽ half the grid used) ; east 5 plots correct to half a small square ; d best-fit line judgement ;		[4]
(c)		cation on graph of how data obtained and at least half of line used rect calculation for triangle method using data from graph;	,	[2]
(d)		wer equals (c) recorded to 2 or 3 significant figures ; from (c))		[1]
(e)	obs OR mea obs (allo	ding meter scales; erve perpendicularly (owtte); asuring the length of wire; erve perpendicularly/repeat for increasing lengths of wire/pull wire ow: 1 mark for not switching off between readings/battery might run fore: crocodile clips)		[max 2]
				[Total: 15]

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Page 3	Mark Scheme	Syllabus	Paper
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(a) vapour burns / blue flame / flammable gas / splint remained lit; solid goes grey/black/darkens/condensation; [2] (b) no effervescence/no fizzing/no bubbles; pungent smell/blue litmus turns red; (do **NOT** allow this mark if has **red litmus to blue**) not a carbonate / not CO₃²⁻; acidic gas; [4] (c) no visible reaction/no ppt.; not a sulfate/not SO₄²⁻; [2] (d) (i) blue litmus turns red; [1] (ii) effervescence/fizzing/bubbles; [1] (iii) (HCl) faster effervescence/more fizzing/more bubbles (than Q); [1] (iv) (weakly) acidic; [1] (e) (i) effervescence/fizzing/bubbles; (limewater becomes) milky/white ppt.; [2] (ii) calcium carbonate/CaCO₃/calcium hydrogen carbonate/Ca(HCO₃)₂; [1] [Total: 15]

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