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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Ρ	age	2		Syllabus	Paper
			Cambridge IGCSE – October/November 2015	0652	52
1	(a)	(i)	realistic <i>I</i> value recorded for 15.0 cm ; realistic <i>V</i> 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	es labelled with units ; able choice of scales (≽ half the grid used) ; east 5 plots correct to half a small square ; od 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)		ower equals (c) recorded to 2 or 3 significant figures ; f from (c))		[1]
	(e)	obs OR mea obs <i>(alle</i>	ding meter scales ; serve perpendicularly (owtte) ; asuring the length of wire ; serve perpendicularly/repeat for increasing lengths of wire/pull wire s ow: 1 mark for not switching off between readings/battery might run o hore: crocodile clips)		[max 2]
					Total: 151

[Total: 15]

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Pa	nge 3	Mark Scheme		Paper
		Cambridge IGCSE – October/November 2015	0652	52
2	• • •	our burns / blue flame / flammable gas / splint remained lit ; id goes grey/black/darkens/condensation ;		[2]
	, pui	effervescence/no fizzing/no bubbles ; ngent smell/blue litmus turns red ; (do NOT allow this mark if has red litmus to blue) a carbonate / not CO ₃ ²⁻ ;		
		dic gas ;		[4]
		visible reaction/no ppt. ; a sulfate/not SO ₄ ²⁻ ;		[2]
	(d) (i)	blue litmus turns red ;		[1]
	(ii)	effervescence/fizzing/bubbles;		[1]
	(iii)	(HCl) faster effervescence/more fizzing/more bubbles (than ${f Q}$);		[1]
	(iv)	(weakly) acidic ;		[1]
	(e) (i)	effervescence/fizzing/bubbles ; (limewater becomes) milky/white ppt. ;		[2]
	(ii)	calcium carbonate/CaCO ₃ /calcium hydrogen carbonate/Ca(HCO ₃	3) 2;	[1]
				[Total: 15]