CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2013 series

0625 PHYSICS

0625/53

Paper 5 (Practical), maximum raw mark 40

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.

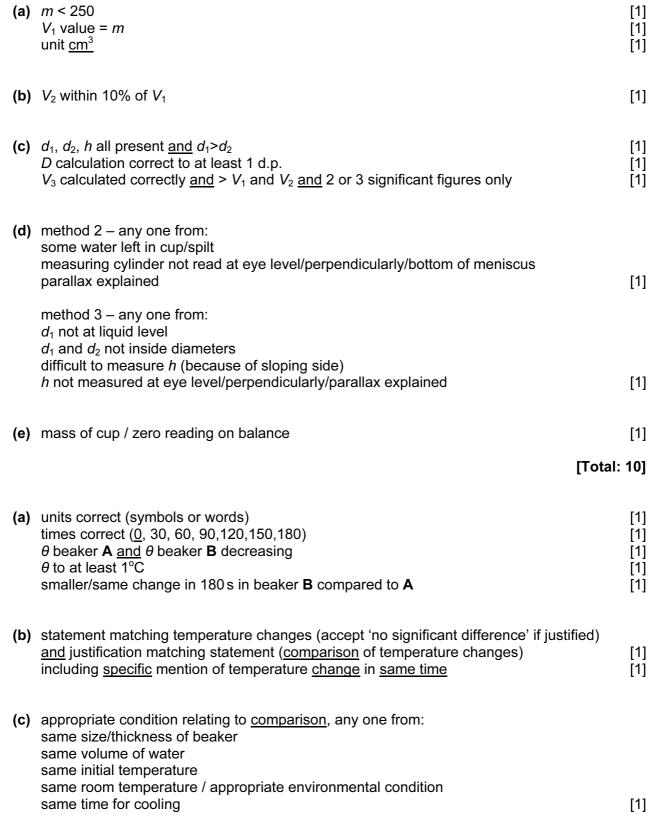
Cambridge is publishing the mark schemes for the October/November 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



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	Page 3			Mark Scheme	Syllabus	Paper	
				IGCSE – October/November 2013	0625	53	
((d)	put	lid on	ible alteration e.g.: //cover top of A periment without insulation or lid / take lid off B		[1]	
		mos	st thei	explanation e.g.: rmal energy loss by convection o.w.t.t.e. y changed one factor o.w.t.t.e.		[1]	
						[Total: 10]	
3 (differences all < 2.5 V <u>and</u> to at least 1 d.p. all < 1.50 A <u>and</u> to at least 2 d.p.		[1] [1]	
(b)	axes labelled, with units appropriate scales (plots occupying at least ½ grid) plots correct to ½ square best-fit line and thin, neat line, neat plots					
((c)	(i)		gle method seen <u>on graph</u> e triangle (at least 1/2 candidate's line)		[1] [1]	
		(ii)		$M \underline{\text{and}} < 2.0$ 3 significant figures $\underline{\text{and}}$ unit Ω (symbol or word)		[1] [1]	
						[Total: 10]	
4 ((a)	(i)	CD a CD a all lin	race: nal correct nat 20° within1° and equivalent reflected line in corre nat 30° within 1° and equivalent reflected line in corre nes thin and neat P ₂ pin separation at least 5 cm		[1] [1] [1] [1]	
			table θ = 4	e: 10° and 10° within 10° (e.c.f. from candidate's 10°)		[1]	
(j)		and j	nite statement matching results (expect YES but all justification matching statement ect 'within the range of experimental accuracy' o.ves from results shown/used (correctly w.r.t. statem	v.t.t.e.)	ce >10%) [1] [1]	
((k)		thin I view lines pins pins	two suitable precautions: lines/fine pencil protractor perpendicularly/parallax explained through centre of pin holes well separated vertical/not bent/viewed at base e mirror so that reflecting surface is on line o.w.t.t.	e.	[2] [Total: 10]	