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## **UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

## MARK SCHEME for the October/November 2011 question paper for the guidance of teachers

## 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 must be read in conjunction with the question papers and the report on the examination.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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	Page 2									Syllabı	us	. D	1				
					IC	CSE -	– Octo	ber/No	oven	nber 20	11		0625		/×	30	
1	(a)	h w and d present AND in cm, to nearest mm V correct $\rho$ correct and 1.5 – 3.5 (g/cm <sup>3</sup> ) ignore significant figures									`	PaCal.	Abride				
	(b)		$V_1$ nd $ ho$ 2 or $3$	cor 3 si	ect gnifica	ant figu	ıres ar 0.5 g/c	nd unit cm³									[1] [1] [1] [1]
	(c)	small volun air bu	ulty ler n ne o ubble	of n mas of th les i	s so g read i n clay	reater not tak /uneve	inaccı en into en den	uracy accou	unt stribut	.w.t.t.e. tion/clay	may at	osorb			ı	Total	[2] : <b>10]</b>
2	(a)	$ heta_{\!\scriptscriptstyle  m c}$ and $ heta_{\!\scriptscriptstyle  m m}$ be temper	etwe	een	$ heta_{\! ext{c}}$ and	$\theta_{h}$		ce, not	t cont	tradicted	i)						[1] [1] [1]
	(b)	corre E val				consis	tent 2,	3 or 4	signi	ificant fi	gures						[1] [1]
	(c)	(i) s	state ustif	eme ified	nt ma by re	tches ference	reading e to rea	gs adings	i								[1] [1]
		(ii) a	any s	sen	sible	eferer	ice to l	heat lo	ss to	surrour	dings/h	eat gai	ned by	contai	ner		[1]
	(d)		or ar	any e	xtra t	icks in					num of 0 scores 1		ı				[2]

[Total: 10]

	Page 3			Mark Scheme: Teachers' version Syllabus							· A	ľ	
				IGC	SE – Oct	ober/N	ovemb	er 2011		0625		Do	
3	(a)	table: m, V, A, all V to a all I to at correct F consister	at lea at leas R val	st 1 d.p. st 2 d.p. ues			or R						Cambridge [1]
	(b)	R (directly) proportional to <i>l</i> o.w.t.t.e. allow ecf numerical example given (allow two ratios) idea of within limits of experimental accuracy									[1] [1] [1]		
	(c)	prediction: sum of $R$ values in table or other multiplication method (could be rounded) working shown									unded)	[1] [1]	
		[Total: 1											
4	(a)	table: v values 1/u and consister	1/ <i>v</i> v	alues co	rrect	gures fo	or 1/ <i>u</i> an	nd 1/ <i>v</i>					[1] [1] [1]
	(b)	graph: axes lab- all plots of well-judg thin line	corre	ct to ne		small sq	quare						[1] [1] [1] [1]
	(c)	intercept both inte				square							[1] [1]
	(d)	any one use of da how to a moveme mark len metre rulens, obj	larker avoid ent of ns ho ule cla	ned room parallax lens ba lder to s amped o	when ta ck & forth now pos r on ben	n to obta ition of o ch	ain clea centre c	rest imag of lens	ie				[1]

[Total: 10]