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CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2013 series

0625 PHYSICS

0625/51

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 2			Mark Scheme	Syllabus	7.0
				IGCSE – October/November 2013	0625	Na.
1	(a)	(i)	l₀, re	ecorded in mm		W. Patra Cambridge
		(ii)	work	kable length clearly shown on Fig. 1.1 (or Fig. 1.2)		To the
	(iv)	, (v)		e: ect F values used and increasing l values (> l_0) lues correct		[1] [1]
	(b)	suit	es cor table : plots (rectly labelled scales correct to ½ small square e judgement AND thin, continuous line		[1] [1] [1] [1]
	` '		_	method used and shown least half of candidate's line		[1] [1]
						[Total: 10]
2	(a)	(i)	sens	sible value for $ heta_{ extsf{H}}$		[1]
	(a)-	-(d)	s, °C corre temp evid			[1] [1] [1] [1] [1]
	(c)	ser	sible	new value for $\theta_{\rm H}$ (lower than first value)		[1]
	(e)	vie		n: thermometer at right angles e to being ready on time		[1]
	(f)	roo sta dist orie	rting t tance	nperature temperature of thermometer bulb from water surface on of thermometer		[2]

[Total: 10]

	Page 3	Mark Scheme Syllabus					
	<u> </u>	IGCSE – October/November 2013	0625				
3	Page 3 Mark Scheme Syllabus IGCSE – October/November 2013 0625 (a) all V to at least 1 d.p. and < 3 V I to at least 2 d.p. and < 1 A V in V and I in A (at least once, not contradicted) P in W (at least once, not contradicted) P values correct $P_T = P_1 + P_2 + P_3 \pm 10\%$						
	(b) state	n terms of within or beyond	[1]				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	diagram: lamps in parallel and variable resistor in series with po for variable resistor, lamps, voltmeter one voltmeter, correctly positioned	wer supply, correct symbols	; [1] [1]			
	(ii)	vary current (or p.d.)		[1]			
			[100	al: 10]			
4	(a) (i)	v = 28 - 32 (cm)		[1]			
	(ii) (iii)	calculations correct		[1]			
	(iv)	f correct		[1]			
	` '	22 – 26 (cm) ues within 4 cm of each other		[1] [1]			
	(c) (i)	Sensible range up to 2 cm around a value approximatel	y 24 cm	[1]			
		f_{AV} given to 2 or 3 significant figures and correct unit $f_{AV} = 13 - 17 \text{cm}$		[1] [1]			
		any two from: use of darkened room/brighter lamp mark position of centre of lens on holder place metre rule on bench (or clamp in position) ensure object and lens are same height from the bench lens/object/screen perpendicular to bench use of repeats	1	[2]			
			[Tota	al: 10]			

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