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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

0625 PHYSICS

0625/61

Paper 6 (Alternative to 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.

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

CIE is publishing the mark schemes for the October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



1	(a)	correct 1/d values 0.0222, 0.0294, 0.0370, 0.0444, 0.0518 all to 2 significant figures or all to 3 consistent significant figures	[1] [1]
		graph: axes suitable and labelled all plots correct to ½ small square good line judgement (position) thin line, single, no blobs (quality)	[1] [1] [1] [1]
	(c)	gradient by triangle method using at least ½ candidate's line clear, on graph, how obtained	[1] [1]
	(d)	z value 0.9 – 2.5 2 or 3 significant figures and unit cm given	[1] [1] [Total: 10]
2	(a)	θ _r 26	[1]
	(b)	(i) s and °C in both tables	[1]
		(ii) at least 300s and given to nearest 10s or in mins	[1]
	(c)	Table 2.2 (heating) justified by two temperature differences compared, must see 14 and 44/56 OR 74 to 60 and 25 to 69/81	[1]
	(d)	any two from: same starting temperature constant room temperature/avoid draughts/same place same time intervals same thermometer (wtte) same mass/amount/volume of water same beaker	
		lid always used	[2]
			[Total: 6]

Mark Scheme: Teachers' version IGCSE – October/November 2010

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Syllabus 0625

Р	Page 3		Mark	Scheme: Teachers' version	Syllabus	Paper
900		, -		E – October/November 2010	0625	61
3 (a	a)	0.3 – 0.3	1			[1]
(b	o)	Ω, A 10.1				[1] [1]
(с	;)	correct c $10(\Omega)$	alculation of 0		[1] [1]	
(d	d)	voltmete	in parallel			[1] [1] [1]
						[Total 8]
4 (a	a)	P ₃ P ₄ G la		ectly and neat prrectly and neat 5cm apart		[1] [1] [1] [1]
			(v) 40 – 42 2 <i>i</i>) correct	(ecf) (ecf)		[1] [1]
(b	o)	(i) 2 an	d unit (°) pres	ent at least once		[1]
		refer	(or No, ecf) rence to 'withi close enough o	n limits of experimental accura or wtte)	cy'	[1] [1]
(с	:)	no conce	ern about pins	being vertical (or wtte)		[1] [Total: 10]
5 (a	1)	[3]				
(b	o)	any three stopclock balance:	K :	time mass		
		thermom measurir	eter: ng cylinder:	temperature volume (of water)		[3]
						[Total 6]