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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.

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[2]

[Total: 6]

Page 2	Mark Scheme: Teachers' version	Syllabus	100	
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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

lid always used

	(b)	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 $\frac{1}{2}$ 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)	$\theta_{\rm r}$ 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	

[Total 6]

	Pa	ge 3	Mark	Mark Scheme: Teachers' version Syllabus	
		<u> </u>		E – October/November 2010	0625
3	(a)	0.3 – 0.3	31		Syllabus 7. Add to 100 100 100 100 100 100 100 100 100 10
	(b)	Ω, A 10.1			[i]
	(c)	correct of 10(Ω)	calculation of 0	$0.5I_{ m o}$ shown (ecf)	[1] [1]
	(d)	voltmete	: s in parallel er symbol er position		[1] [1] [1]
					[Total 8]
4	(a)	P₃P. G la	extended corre 4 line drawn co abelled and P ₂ at least	prrectly and neat	[1] [1] [1] [1]
			(v) 40 – 42 2i) correct	(ecf) (ecf)	[1] [1]
	(b)	(i) 2 ar	nd unit (°) pres	ent at least once	[1]
	(ii) yes (or No, ecf)		n limits of experimental accuracy'	[1]	
			close enough		[1]
	(c) no concern about pins being vertical (or w		being vertical (or wtte)	[1]	
					[Total: 10]
5 (a) any three from: mass/volume/amount of water room temperature temperature of water amount of stirring size/shape of beaker temperature of ice cube number/mass/size of cubes			lume/amount nperature ture of water of stirring pe of beaker ture of ice cub	oe	[3]
	(b)	any three stopcloc balance: thermon measurin	k:	time mass temperature volume (of water)	[3]