UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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for the guidance of teachers

0625 PHYSICS

0625/63

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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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.

Denis C	Mark Sahamat Teachara's consists	
Page 2	Mark Scheme: Teachers' versionSyllabusIGCSE – October/November 20100625	X
all p well	Mark Scheme: Teachers' version Syllabus IGCSE – October/November 2010 0625 oh: axes labelled and scales suitable 0625 lots correct to nearest ½ small square judged best fit line best fit single line/no 'blobs' ment matches line (expect YES)	ambridg
justi	ement matches line (expect YES) fication matches statement pect straight line through origin)	[1] [1]
clea m c	igle method with more than half the line used r how obtained – shown on graph prrect in kg, 2 or 3 significant figures 9 – 1.45 kg - unit penalty [To	[1] [1] [1] otal: 10]
(a) θ _r =	27	[1]
(b) (i)	<i>t</i> in s, θ in °C in both tables	[1]
(ii)	statement correct (about the same) justified – within limits – numbers similar, etc.	[1] [1]
sam con carr sam	two from: e starting temperature stant room temperature/avoid draughts y out at same time/place/time interval e thermometer (wtte) e mass/volume/amount of water	
sam	e type of beaker	[2]
	ר <u>ן</u>	otal: 6]
(a) (i)	voltmeter symbol correct position	[1] [1]
(ii)	variable resistor/rheostat	[1]
(b) 2.2	marked	[1]
(c) (i)	correct values 6.11, 6.03, 6.12, 6.17, 6.09 consistent 2 or 3 significant figures	[1] [1]
(ii)	V, Α, Ω	[1]
(iii)	statement matches results (expect YES) explanation matches statement (expect same within limits of experimental accura	[1] icy) [1]
	Π	otal: 91

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Page 3		llabus r
	IGCSE – October/November 2010	0625
(a) a correct	9.9 – 10cm	<u>/llabus</u> 0625 Ratha Cannbring
(b) y correct	(3 × <i>a</i>) 30cm allow ecf from (a)	3
(c) at least to d = 2.8cm	wo readings recorded n	[1] [1]
	lues correct 4.84, 5.76, 6.76, 7.84, 9.61 istent number of significant figures (2 or 3)	[1] [1]
(ii) state	ment matching results (expect YES)	[1]
	ication matches statement (expect within limits of experim ose enough', or wtte)	nental accuracy, [1]
how to av use of ma repeat (a	rkened room /oid parallax when measuring distances arks paper on screen to aid measurements nd average)	
screen/ol	oject card perpendicular to bench	[2]
		[Total: 10]
mass of s	ameter/number of coils of spring – any two for 1 mark eac spring	:h
selection (NOT roc	of loads om temperature)	[3]
(b) l _o shown	and l shown (consistent with l_{o})	[1]
(c) use of fid	ucial aid	[1]